

APRIL  
1952

INNOVAL BEST FOR ALL ELECTRONIC APPLICATIONS

# *Amateur Radio*

JOURNAL OF  
THE WIRELESS  
INSTITUTE OF  
AUSTRALIA

For the Experimenter  
and Radio Enthusiast



9<sub>D</sub>.

Registered at G.P.O., Melbourne, for  
transmission by post as a periodical.

It's the valve  
that makes  
the music

PHILIPS

# **INNOVAL**

# "HAM" RADIO SUPPLIERS

(KEN MILLBOURN, PROP.)

**5A Melville Street, Hawthorn, Victoria**

East Kew Tram Passes Corner, opposite Vogue Theatre.

Phone: Hawthorn 4465

Money Orders and Postal Notes payable North Hawthorn P.O. Packing Charge on all goods over 10 lbs. in weight, 5/- extra.

## New Valves Just Arrived

807, Nat. Union .. £1	5BP1, Sylvania .. £1	951 American .. 12/6	EF50 .. 12/6
830B, R.C.A. .... £1	35T Eimac .. £4	955 " .. 12/6	RL18 .. 13/-
834, R.C.A. .... £1	35TG Eimac .. £4/5/-		

## Tested Valves from Disposal Gear

1G4 .. 7/6	6C6 .. 7/6	6K7G .. 7/6	6U7G .. 7/6	12SG7 .. 10/-	45 .. 10/-
1K7 .. 7/6	6C8 .. 7/6	6L6G .. 15/-	12A6 .. 10/-	12SJ7 .. 10/-	813 .. 60/-
1L5 .. 7/6	6F5 .. 10/-	6L7 .. 10/-	12AH7 .. 10/-	12SK7 .. 10/-	832 .. 50/-
2A3 .. 15/-	6G6G .. 10/-	6SC7 .. 10/-	12C8 .. 10/-	12SQ7 .. 10/-	956 .. 10/-
6A3 .. 15/-	6H6 .. 5/-	6SH7 .. 5/-	12H6 .. 10/-	12SR7 .. 10/-	9004 .. 10/-
6AC7 .. 15/-	6J5GT .. 10/-	6SS7 .. 10/-	12J5 .. 10/-	1629 .. 10/-	7193 .. 5/-
6B5 .. 7/6					VR65A .. 5/-

**JUST ARRIVED—HUGE STOCK OF 6SH7s & 7193s - - 5/-  
FOR THAT V.H.F. EQUIPMENT! NEW RL18s 13/- EACH**

Command Transmitters, 2.1 to 3 Mc. and 4 to 5.3 Mc. Complete with Valves .. £7/10/- each

TA12D Transmitter, complete with Valves .. £17/10/-

ARR Receiver, six bands, 150 Kc. to 25 Mc. Complete with a.c. supply and speaker, performs well. £27/10/-

MN26C Radio Compass Receivers, 150 to 1500 Kc. These are new, in carton. Complete with Valves, £17/10/-

Command Receivers, 1.5 to 3 Mc., 3 to 6 Mc., and 6 to 9 Mc. Complete with Valves .. £7/10/- each

New I.F.F. Units, BC966A. Contains seven 6SH7s, three 7193s, four relays. These sets are complete with 18 volt genemotor, £5/17/6. Less genemotor, £4/17/6

A few second-hand BC966A Units are available with the genemotor, £4/17/6. Less genemotor, £3/17/6

0-500 Microamp. Meters, disposals equipment .. 22/6

New Meters—0-1 Ma. full scale, square type .. 27/6

New Meters—0-5 Ma. full scale, square type .. 27/6

New Meters—0-40, 0-120 Ma., separate connection, 22/6

New Meters—0-150 Ma. full scale, square type .. 27/6

813 Ceramic Sockets .. 15/- each

Six volt Bayonet Type Dial Lamps .. 1/- each

EF50 Sockets, Ceramic .. 2/6 each

Lockalt Sockets .. 1/6 each

Chassis Feed Through Insulators .. 9d. each

Eddystone 54 pF. silver plated wide-spaced Cond. 15/-

Solor 28 pF. silver plated wide-spaced Condenser 12/6

Solor 50 pF. silver plated close-sp. screwdriver adjust. 5/-

Two Condensers approx. 50 pF. S.D.A., mounted on flat ceramic block .. 4/- each

Kingsley KS9 with 6AG5 Valve, 14 and 28 Mc. Coil Boxes .. £6

Kingsley FM Adaptor, 455 Kc. Transformer, Complete with valves .. £4

TR1143 English equivalent of American SCR522. This set complete with valves .. £12/10/-

Philips' Amplifier, 25 watt. Pre-amp. stages and (three 6J7s) into four 6V6 Valves (push-pull parallel), multi-match output transformer, 230v. a.c. operation. Complete with Astatic Xtal Microphone and 12 inch Speaker, £25

Steele's 5 watt Amplifier. Operates off 6 volt d.c. or 230 volt a.c. Line up two stages of 6J7 pre-amps into 6V6 multitap output transformer. Less speaker and mike, £15

Hammamund plug-in coil units, contains two variable condensers, coil formers, etc. .... Price £3/10/-

Palec Valve Tester, ET3. Complete with Book, £27/10/-

Modulated Oscillator, 5-band, a.c. operated, calibrated dial. As traded .. £15

## LARGE STOCK OF CRYSTALS JUST ARRIVED

WRITE FOR YOUR REQUIREMENTS

1,000 Kc. Crystal mounted in case with 10 pin valve socket and 4 pin Continental power plug .. £2

Marker Crystals, 3.5 Mc., 5 Mc., and 10 Mc. Crystals ground to any frequency. Complete with holder, £2.

Following is a list of Crystal Frequencies available for immediate delivery at £2 each—

3500 Kc.	3595 Kc.	7128.3 Kc.	8043.5 Kc.
3501.6 Kc.	7002.5 Kc.	7129 Kc.	8056.6 Kc.
3506.1 Kc.	7003 Kc.	7130 Kc.	8081.5 Kc.
3509.1 Kc.	7004 Kc.	7132 Kc.	8090 Kc.
3509.2 Kc.	7006.2 Kc.	7140 Kc.	8150 Kc.
3511.2 Kc.	7012.5 Kc.	7177 Kc.	8155.71 Kc.
3514 Kc.	7013 Kc.	7179 Kc.	8161.538 Kc.
3517 Kc.	7029 Kc.	8019.5 Kc.	8171 Kc.
3535 Kc.	7032 Kc.	8021.5 Kc.	8182 Kc.
3537.5 Kc.	7039 Kc.	8035 Kc.	8183.5 Kc.
3573 Kc.	7052.5 Kc.	8037 Kc.	8318 Kc.
		8040 Kc.	8488 Kc.

**WANTED TO BUY—RADIO PARTS, VALVES, TRANSFORMERS, RECEIVERS, TRANSMITTERS, ETC.**

# AMATEUR RADIO

**EDITOR:**

T. D. HOGAN, VK3HX,  
Telephone: UM 1732.

**MANAGING EDITOR:**

J. G. MARSLAND, VK3NY.

**TECHNICAL EDITOR:**

J. C. DUNCAN, VK3VZ.

**TECHNICAL STAFF:**

L. B. FISHER, VK3AFF.

**COMPILATION:**

R. W. HIGGINBOTHAM, VK3RN.

**CIRCULATION:**

I. K. SEWELL, VK3IK.

**ADVERTISING REPRESENTATIVE:**

W. J. LEWIS,  
20 Queen St., Melbourne, C.I.  
Telephone: MU 5154.

**PRINTERS:**

"RICHMOND CHRONICLE,"  
Shakespeare St., Richmond, E.I.  
Telephone: JB 2419.

MSS. and Magazine Correspondence should be forwarded to the Editor, "Amateur Radio," Law Court Chambers, 191 Queen St., Melbourne, C.I., on or before the 8th of each month.

Subscription rate in Australia is 9/- per annum, in advance (post paid) and A10/6 in all other countries.

Wireless Institute of Australia  
(Victorian Division) Rooms' Telephone: FJ 6997.

## WI BROADCASTS

All Amateurs are urged to keep these frequencies clear during, and for a period of 15 minutes after, the official Broadcasts.

VK3WI: Sundays, 1100 hours EST, 7195 Kc. and 2000 hours EST 50 and 144 Mc. No frequency checks available from VK3WI. Intra-State working frequency, 7115 Kc.

VK3WI: Sundays, 1130 hours EST, simultaneously on 3595 and 7195 Kc. and re-broadcast on 50 and 144 Mc. bands. Intra-State working frequency 7185 Kc. Individual frequency checks of Amateur Stations given when VK3WI is on the air.

VK4WI: Sundays, 0930 hours EST, simultaneously on 7195 and 14342 Kc. 7065 Kc. channel is used from 0930 to 1030 hours each Sunday for the W.I.A. country hook-up. No frequency checks available.

VK5WI: Sundays, 1000 hours SAST, on 7195 Kc. Frequency checks are given by VK5DW by arrangements only on the 7 and 14 Mc. bands.

VK6WI: Sundays, 0930 hours WAST, on 7195 Kc. No frequency checks available.

VK7WI: Sundays, at 1000 hours EST, on 7195 Kc. and 146.5 Mc. No frequency checks are available.

Published by the Wireless Institute of Australia,  
Law Court Chambers, 191 Queen Street,  
Melbourne, C.I.

## EDITORIAL



A stirring message and, no doubt, an inspiration to each and everyone of us, entitled "A Call to the People of Australia" was recently promulgated throughout the Press and Radio Stations of Australia.

From this message springs the thought that it could be applied to the Radio Amateurs of this country—and in no small degree the members of the Wireless Institute of Australia—in that we are in danger from the apathy of the general member in not doing his bit or not putting his all towards achieving the goal of inducing each and every licensed Amateur to become a member of the Institute.

We believe that each of us has a duty to perform by recruiting into our ranks, at least, one non-member, and in so doing help further our aim from which comes additional benefits in the administrative, social, and financial spheres of our hobby.

The Federal Treasurer in his Christmas message stated that finance is the life blood of any organisation and you all know that money is a very important commodity in the conduct of a business. Each Division is a non-profit sharing business, and whatever is earned is utilised in giving a better service to its members in return.

What are you doing towards increasing this return? Are you the one who leaves it to the other fellow? If so, your apathy, coupled with that of a great proportion of your fellow

members, is the very thing that places the burden on the "faithful few" who are in turn called "the clique" because their best endeavours do not meet with your approval. Does it ever occur to you that your efforts are not recorded so they can be the subject of criticism? Perhaps you prefer to shelter in your seat at the general meeting and say nothing until the meeting is over, or in your shack vent your opinions where they do the least good.

Recently this Executive had an interview with the Minister for the Interior, The Hon. W. S. Kent-Hughes, who expressed delight at the offer of the Institute in providing a large nucleus of trained personnel for the formation of a civilian defence network. He intimated that in a Bill to be presented to the Federal Parliament shortly, provision would be made to absorb the Radio Amateur in the communication side of the proposed scheme.

This is a challenge to the members of the Institute, which we feel will be accepted wholeheartedly, but unless it is, the Radio Amateur will lower the high prestige he now holds with the authorities, both civil and defence.

Therefore, we call upon you individually and collectively to reflect on these remarks, and in so doing, give thought as to how your future efforts can be of benefit to Amateur Radio and the Commonwealth of Australia.

—FEDERAL EXECUTIVE.

## THE CONTENTS . . .

Agenda Items for the 22nd Federal Convention	3	Jubilee VK-ZL DX Contest 1951 Results	8
Fifty Megacycles and Above	7	Federal, QSL, and Divisional Notes	11
DX Notes by VK4QL	7		

# Homecraft

## BARGAINS FOR THE RADIO ENTHUSIAST!

★ CONVERT YOUR EXISTING 78 R.P.M.  
RECORD PLAYER TO "MICROGROOVE"  
with the "CHANCERY"

PICK-UP AND TURNTABLE ATTACHMENT

★



- Easy to install.
- Pick-up has interchangeable Heads.
- Cantilever type Sapphire Stylus.
- Excellent Frequency Response.
- Even Speed Reduction.

Price as illustrated £12/5/-

Standard or Microgroove Heads, £3/17/6 each.

Will fit any type turntable.

Pick-up suits any Radio Receiver.



★ BUILD A DE LUXE  
OSCILLOGRAPH

Outstanding value. 5BP1 Cathode Ray Tube, originally cost £15, cut to only 37/6. Blue Print to build Oscillograph, 1/6. Socket for 5BP1 tube, 9/6. Cathode Ray Cabinet, black crackle finish, steel drilled cabinet and chassis complete with brackets, £4/7/6. Power Transformer for 5BP1 Cathode Ray Oscillograph, £3/19/6.

COUNTRY AND INTERSTATE CLIENTS  
PLEASE ADD FREIGHT OR POSTAGE.



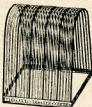
★ BARGAIN ALL-PURPOSE  
TEST MULTIMETER

1,800 ohms per volt. Three voltage ranges AC/DC, two milliamperes ranges, resistance up to 200,000 ohms. Self contained battery. Complete with test leads, price only £8/15/- plus 12½% sales tax.



★ BATTERY CHARGER KIT

Kit of parts to build a 6 volt 4 amp. Battery Charger. Kit includes an English Selenium Rectifier, Transformer, black crackle finish metal case, two terminals, hook-up wire and circuit blue print instruction. Price, as illustrated, £5/19/- 12 volt 2 amp., 5/- extra.



★ "RECORDEX" RECORD RACKS

The new improved gramo Record Rack, holds 25 10-in., or 12-in. records. Complete with index card and gummed identification numbers for records. Price, as illustrated, 17/9. Model to hold 50 records, 33/-.



★ TAPE RECORDING EQUIPMENT

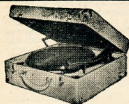
Pyral French Recording Tape, the world's best. ¼ inch tape with plastic or paper base.

5 inch Spool, Paper Base	28/6
5 inch Spool, Paper Base	40/-
5 inch Spool, Plastic Base	44/-
7 inch Spool, Plastic Base	63/4



★ NEW ZEPHYR "4XA"  
CRYSTAL MICROPHONE

High Fidelity Crystal Insert with centre cell filter. Price, £4/5/3.



★ NEW CAPITOL ELECTRIC  
GRAMO UNIT

English Dual Speed Gramo Motor (33-1/3 and 78 r.p.m.) and Collaro High Fidelity Magnetic Pick-up in streamlined leatherette carrying case. As illustrated, £14/10/6.



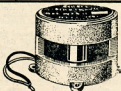
★ NEW R.P.M. AMPLIFIERS

Two models: Type PA1, turns an ordinary 4-valve receiver to a full-powered gramo amplifier. Type PA2, for working low output microphone with an ordinary 5-valve receiver. Both models, price, £5/15/6.



★ ELECTRIC GRAMOPHONE UNIT

The new B.S.R. three-speed Electric Gramophone Unit, Model GU4, three speeds: 33, 45 and 78 r.p.m. Automatic stop. External knob to change speed, light weight High Fidelity Pick-up. A Pick-up for microgroove or standard recordings. Price, as illustrated, 15 Gns. Easy terms available in Victoria.



★ RECORD AND ERASE HEADS

Model L.I. Low Impedance Play Back Head, with frequency response 70 to 7,000 c.p.s. Suits any type tape. Price as illustrated, only 6 Gns. Model E.I. General Type Erase Head, voltage required 6-8 volts. Frequency 30 to 40 Kc. Price as illustrated, only 6 Gns.

290 LONSDALE STREET, MELBOURNE

Central 4311



# Agenda Items for the 22nd Federal Convention

to be held at Sydney, 11th to 14th April, 1952

The Twenty-Second Federal Convention of the Wireless Institute of Australia is to be held in Sydney from 11th April to 14th April, 1952. Following is the agenda items listed for discussion:-

## ADMINISTRATION

1-1. VK2—That Federal Executive be located in New South Wales for the 1952-1953.

Comment: It is felt that the time has come for the sitting of the Division to share the responsibility and arduous duties associated with running the Institute on a Federal plane, and also that the introduction of new blood and fresh ideas and enthusiasm would be to the benefit of the Institute generally.

1-2. VK5—That Federal Executive be transferred to the New South Wales Division.

1-3. VK3—That consideration be given to holding the Federal Convention bi-annually.

1-4. VK4—That in view of the increasing high costs of conducting an Annual Federal Convention, the Convention be held every two years, the next to be held in 1954.

1-5. VK5—That in future Federal Convention be held once in every two years.

1-6. VK4—That a uniform method be adopted by the Divisional QSL Bureaux with respect to including the QSL card for non-member, and the possibility of having them returned to the Federal Bureau after a determined time for storage, and future fate be considered.

1-7. VK2—That the addresses of the Divisional QSL Bureaux be included in the list of other official Divisional addresses in "Amateur Radio."

1-8. VK5—That the Divisional QSL Officer be the responsible person for the checking of QSL cards for the W.A.C., DX C.C., and other awards.

## POLICY AND FINANCE

2-1. VK2—That if and when Federal Council authorities any project involving expenditure of funds a specific appropriation be made.

Comment: Economy should be practiced by the Council. The sum is always small. A recent example of unwarranted extravagance is the colossal sum expended on contest certificates. The Federal Council did not specify any limit.

2-2. VK5—That the approval of all Divisions be obtained by F.E. before a sum greater than £25 be expended on any particular project.

2-3. VK6—That approval of Federal Council be obtained in advance for expenditure by F.E. on any item over £25.

Comment: A perusal of the F.E. expenditure will reveal sufficient reason. In all cases, the approval of Federal Council should be obtained as soon as possible in conformity with Item 23 of the 1950 Convention.

2-4. F.E.—That it be the policy of the Institute to maintain a better standard of certificates issued by it both for local and overseas applicants, and that the cost be not made the major issue but rather the advancement of the W.I.A.

2-5. VK6—That the per-capita for Federal Executive be increased to 1/6.

2-6. VK4—That the Standard Log Sheet be not made compulsory for contestants' logs as set out in the policy book, but that the wording be amended to make it voluntary act to be published by the Divisions.

2-7. VK6—That the Divisions be encouraged in the interests of the Institute as a whole to freely exchange views on current happenings in the form of a news letter amongst themselves.

2-8. F.E.—That it be the immediate policy of the Institute within its Division to appreciate the value of increasing its technical service to the public, and that all Divisions form active technical centres to raise funds whereby all modern technical facilities can be owned by the Institute in every State.

Comment: With the modern technical advances made in the science of radio the Institute should be expanding in this sphere to maintain recognition as a technical Institute.

2-9. VK4—That the Divisions should be made to obtain the co-operation of all Amateurs in limiting the increasing amount of QRW in evidence at the Divisions.

Comment: Not only members of the W.I.A., but all Amateurs should co-operate, especially those who, because they cannot themselves hear a particular broadcast, think the own transmission does not interfere on the broadcast channels.

## CONSTITUTION

3-1. F.E.—That the intention of the Uniform Divisional Constitution be discussed with a view to eliminating misinterpretation and failure to achieve complete uniformity.

3-2. F.E.—That consideration by Federal Council be given to combining the Uniform Divisional Constitution with the Federal Constitution as one document to be known as the Federal Constitution of the Wireless Institute of Australia in accordance with Item 15 of the 1948 Federal Convention.

3-3. VK6—That the Federal Constitution be altered so that the voting members are Divisional representatives only.

Comment: It is wrong in principle that the machinery by which the wishes of the Divisions are carried out has an effective say in its own destiny.

3-4. VK6—That the Federal Constitution be clarified regarding the attendance of F.E. personnel at Conventions.

Comment: There are three different sections dealing with this and they all conflict. Surely if one delegate is sufficient to represent a whole Division, one delegate is more than ample to represent an entire annually elected Division members should be on the same basis as observers if they attend.

3-5. VK6—That the Federal Executive be incorporated into the Federal Council as follows:-

(1) The office of the President of the Federal Council and of the Wireless Institute of Australia shall rotate annually among the Divisions and shall be known as the Federal President of the W.I.A.

(2) An Executive Vice-President, Secretary, and Treasurer shall be elected by the Federal Council and shall carry out the directions of the Federal Council.

(3) The Federal Vice-President may, with the approval of the Federal President, co-opt up to two ex-officio members for any specific purpose deemed necessary.

3-6. VK2—That the Federal Constitution be amended to provide that the Federal President be President of the Institute and Chairman of the Federal Council, but not a member of Federal Executive, and that Federal Council elect all other members of the Divisions, and that the composition of Federal Executive be examined to see that the Federal President and Vice-President.

Comment: In order that the Federal Council shall function as an impartial body, it is most desirable that its personnel should not overlap with the Executive it directs. To date there has been a tendency for the President and Vice-President to act on behalf of the Executive rather than of the Council. If the office of Vice-President was filled from the Divisions, the decentralization of office and the wider Divisional representation would throw more stress on the Australian-wide nature of the Council. The intention is to see that Federal Council operates as a completely independent body for the good of the Institute as a whole without the distraction of Executive responsibilities.

## AN APOLOGY

Owing to the publication of Agenda Items for the Federal Convention and the results of the VK-ZL DX Contests, technical articles have had to be cut severely, therefore Part viii. of the Television series has had to be deferred for one month.

A number of letters have been received by the author of the articles, and we are printing, as space permits, some of the questions and answers which he feels are of general interest to readers. All other questions are answered directly by mail to the person concerned.—Technical Editor.

3-7. VK6—That the following extract from Federal Executive's letter to VK6, dated 1/11/51, be discussed and be discussed.

Extract: "The activity of the Federal Council has nothing to do with the Divisional Constitution except that he be appointed by the Division and becomes an ex-officio member of Council. He is not a Divisional Officer; he is a Federal Officer and his activities are governed by the Federal Constitution. His appointment by the Division under Clause 23 is perfectly valid in the same way as any other appointment the Division may make. There is nothing else any Division can do about a Federal Councillor other than appoint him, because he is not a Divisional Officer in actual fact."

CONTESTS, PUBLICITY AND AWARDS

4-1. F.E.—That this Convention consider means of ensuring a greater degree of permanence of rules governing all contests.

Comment: Whilst contests are a very important feature of Amateur activities, the Federal Council should consider the many man-hours wasted by the continual changing and amending of rules—man-hours that could well be spent in activating other interests in the hobby of Amateur Radio.

4-2. VK6—That discussion on the future of the National Field Days take place to ascertain from all Divisions whether they wish them to be continued or not.

4-3. VK6—That portable stations operating in the National Field Day Contest be limited to ten or fifteen watts maximum input because of difficulty in obtaining petrol driven generators.

Comment: Petrol driven generators are difficult to obtain whereas with a limited input of ten or fifteen watts the power could easily be obtained from generator or vibrator supplies.

4-4. VK4—That in view of the increased input of power to the National Field Day Contest though not borne out by the number of entrants this year) it be continued for at least another year.

4-5. VK6—That the Federal Council consider with great earnestness the necessity for expanding interest in the National Field Day Contest in view of the possible future requirements of Civil Defence.

4-6. VK5—That the Standard Log Sheet, as revised by F.E., be altered to get rid of any ambiguity.

4-7. VK5—That the rules of the Ross Hull V.I.F. Contest be revised after discussion by the Delegates of the effects of the 1951-52 Contest.

4-8. VK6—That the Ross Hull V.H.F. Contest be revised to include all v.h.f. bands.

4-9. VK7—That the Ross Hull Memorial Contest rules be amended to allow other v.h.f. bands to be included.

Comment: It is thought that in view of the increased activity on 144 Mc. and higher frequencies the contest should not be confined to one band.

4-10. VK4—That the N.S.W. Contest Committee be again co-opted by the Federal Council to function as the Federal Contest Committee during 1952-53.

4-11. VK4—That the Federal Contest Committee be asked to frame a fresh set of rules for the 1952-53 contest, and to include the States of VK2 and VK3 may in future have a more reasonable chance of winning the Contest and that the multiplier be on the number of Log Submitters to the members of the Division and not to the licensed Amateurs in the State as it now applies.

4-12. F.E.—That the Remembrance Day Contest be divided into two sections: Section "A" on the lines of the present Contest, Section "B" on the lines of a V.H.F. Relay, the scores of each section to be added together to determine the final result.

4-13. VK6—That an open award considered higher than the existing v.h.f. award be set up for the future VK-ZL Contests to be determined from the sum of the final points of a competitor's entry in both sections.

Comment: This will encourage more entries to both phone and c.w. sections which is so lacking in past contests.

4-14. VK7—That all Contests the clause confining the operation of any one station to any consecutive twenty-four hours be deleted and the contest be held for a period of the entire thirty-six hours or any part thereof if they so desire.

Comment: After all, if a contestant wants to stay up for the whole time this is his business, and as the DX bands are usually open for only part of each twenty-four hours a contestant

# IMPORTANT!

## RADIO AMATEUR HANDBOOK, 1952 EDITION, published by Amateur Radio Relay League.

Price **44/3d.**, and **2/-** postage.

### AVAILABLE NOW!

*This is a Radio Book no Amateur or Professional can do without*

*Obtainable from—*

## McGILL'S AUTHORISED NEWSAGENCY

183-185 ELIZABETH STREET, MELBOURNE, C.1, VICTORIA.

(The G.P.O. is opposite)

Phones: M 1475-76-77

Setting a New Standard in Communication Receivers—

### The "Commander" Double Superhet.

Free Data Sheets on Request

Interstate Representatives: **West. Aust.**—Messrs. Atkins (W.A.) Ltd., 894 Hay St., Perth. **Queensland**—Messrs. A. E. Harrold, 123-5 Charlotte St., Brisbane. In other States direct your inquiries to firms handling Bright Star Crystals.



Valves, new, boxed, RCA 834s, £1/8/- each.

6C4s, 12/- each.

Limited number of the following Taylor Tubes: TZ20s, £2/10/- each; TB35s, £6/10/- each.

Transmitters altered for Bush Fire and Fishing Boat Work.

CRYSTALS, as illustrated, 40 or 80 mx., AT or BT cut. Accuracy 0.02% of your specified frequency, £2/12/6 each.

20 metre Zero Drift, £5 each.

Large, unmounted, 40 or 80 metre, £2 each.

Special and Commercial Crystals—Prices on application. Crystals re-ground, £1 each.

**BRIGHT STAR CRYSTALS** may be obtained from the following Interstate firms: Messrs. A. E. Harrold, 123 Charlotte St., Brisbane; A. G. Healing Ltd., 151 Pirie St., Adelaide; Atkins (W.A.) Ltd., 894 Hay St., Perth; Lawrence & Hanson Electrical Pty. Ltd., 120 Collins St., Hobart; Collins Radio, 409 Lonsdale St., Melbourne; Prices Radio, 5-6 Angel Place, Sydney.

**DC11 TYPE CRYSTAL HOLDERS WANTED. ANY QUANTITY.**

Screw-type Neutralising Condensers (National type), suits all triode tubes, Polystyrene insulation, 19/6 ea.

Prompt delivery on all Country and Interstate Orders.

Satisfaction Guaranteed.

## BRIGHT STAR RADIO

1839 LOWER MALVERN ROAD, GLEN IRIS, VIC. Phone: UL 5510.

should be entitled to work all such times as the bands are open during the entire period of the contest.

4-15. VK2.—That a certificate be made available and awarded to Amateurs making contact with a station in the contest, and stations on frequencies of 80 Mc. and above.

Comment: Such certificates would help to popularise v.h.f. operation for which no similar award now exists. The requirement is not easy to meet and the award should be popular.

4-16. F.E.—That an annual Federal Award be made by the decision of Federal Council at which Amateurs are invited to enter a member of the W.I.A. who will be selected from six annual Divisional award winners for outstanding work in one or more of the following fields of Amateur activity:—

- (a) The design and construction of an outstanding piece of equipment;
- (b) For outstanding service in the sphere of emergency communications;
- (c) For contribution of the greatest service to the advancement of his Division; and that the annual Divisional award winners will be eligible only if his name and call sign together with full details of his achievements are submitted with the annual agenda by his Division for the decision of Federal Council.

4-17. F.E.—That the proposed rules for the A.A.V.A. be approved and forwarded by Federal Council and that upon agreement immediate and wide publicity overseas be arranged.

#### MEMBERSHIP

5-1. VK3.—That Item 10 from the Minutes of the 1951 Convention be annulled.

Comment: The W.I.A. are trying to achieve unification of the Institute throughout Australia we art not allowing the Amateur the free choice of which Division he may become a member. The conception is decidedly inconsistent with our aims, even to the point of one Division not allowing Associate Membership and proposing to do so.

(Item 10 of the 1951 Convention reads as follows: "That any person eligible for membership who has previously been a member can become a member of that Division only.")

5-2. F.E.—That any member of the W.I.A. may be entitled to receive privileges from a Division which he has chosen in which he is residing by the payment of a nominal sum as a fee to that Division for such privileges.

5-3. VK3.—That to assist in publicising the Institute a card-and-sticker in the form of a replica of the badge to be issued to members for a nominal fee.

5-4. VK7.—That the matter of non-members of the W.I.A. wearing Institute badges be discussed in a v.h.f. scheme where possible by the above practice can be overcome.

Comment: Many individuals—Notably Associated with the Institute—have been guilty of enthusiasm and then drop out, continue to wear badges. It is realised that they have paid for the badges and that therefore they own them, but it is felt that some scheme may be devised to overcome the practice.

#### MAGAZINE

6-1. VK4.—That the pages of "Amateur Radio" be used to publish a list of the DX Certificate Awards and their conditions as conducted by the magazine editor.

Comment: So that VK Amateurs may become familiar with the requirements of same.

6-2. VK4.—That an International campaign be launched, the co-operation of overseas Amateur bodies be enlisted, and the magazine be published as "Amateur Radio," "QST," "CQ," and R.S.G.B. "Bulletin" by written articles, and "Radio" by written articles in "Italics" to endeavour to revive the enthusiasm in each station sending out QSL cards on request and may receive QSL cards in return on receipt of or in reply to one already received.

6-3. VK3.—That the Sub-Editors in each Division be directed to assist in obtaining advertising material for the magazine in accordance with the duties of their office as laid down in the Federal Policy Book.

Comment: Federal Council must surely agree that at least one member of each Division may be capable in the art of selling advertising space—or at least assist the agent interstate in selling space—for the Magazine.

6-4. VK2.—That the present position of "Amateur Radio" be discussed.

Comment: To provide an opportunity to consider Federal aspects of the magazine.

#### GOVERNMENT DEPARTMENTS

7-1. VK3.—That Federal Executive negotiate with the appropriate authorities to procure for the W.I.A. the copy rights to publish or have published an Australian Amateur Station Call Sign Book.

Comment: In view of the present situation where "Amateur Radio" is the only publication to print amendments to the existing call sign book printed in 1948, and in view of the W.I.A. being the representative body of the Australian Amateurs, it is felt that it should take steps to procure the copy rights.

7-2. F.E.—That in all initial negotiations with Government Departments on behalf of the W.I.A. reference be made to the Administrative body rather than the Ministerial head.

7-3. VK3.—That the P.M.G. be approached with a view to obtaining a Novice and a Technical Amateur License issued per that I.S.A.

7-4. VK3.—That steps be taken to press for the 160 and 200 metre bands.

7-5. VK3.—That steps be taken to press for the widening of the band between 1.6 and 1.7 Mc.

7-6. VK3.—That the Government be pressed to take action to eliminate or suppress electrical interference to radio reception.

7-7. VK3.—That the Government be approached to alter the emergency networks a special frequency outside and in close proximity to the Amateur bands, and that the authorities be approached to recruit Amateurs on days declared as emergency days, and that they be compensated for any pecuniary loss sustained.

7-8. VK3.—That the P.M.G.'s Department be approached with a view to obtaining Television licenses for Amateurs.

7-9. VK3.—That the minimum age limit for the holding of an A.O.C.P. and the Amateur License be 18 years.

Comment: With the advance in educational standards it is considered this step to be warranted, and ample safeguards exist.

7-10. VK6.—That the Federal Council should press for an AMATEUR RADIO ACT to replace the present administration of the Amateur by Act, by Statutory Rule, by printed edict, and by bureaucracy.

Comment: By similar methods that were taken over the Broadcasting sections of the Act, the Amateur could have an Act which would set out the fundamentals and reason for his being, together with Statutory Rules to suit the needs. The Statute is that while there would have to be an administering authority, the issue would be more clear cut in favour of the Amateur.

7-11. VK3.—That the problem of non-Amateur stations operating in the exclusive Amateur bands be continually pursued with the utmost vigour.

Comment: Mere reference of this matter to the P.M.G.'s Department is not the only way the problem can be attacked. The co-operation of the Amateur community is a legitimate field of effort should be sought. For example, 7000 to 7100 Kc. is exclusively Amateur in all regions; Amateurs should be encouraged to "accidentally" conduct all their work on this frequency as Commercial in that part of the band, especially for local communications where the signals of the users have little effect.

7-12. VK3.—That F.E. approach the P.M.G.'s Department with a request to allow music to be transmitted on 50 Mc. and higher and that the Department refuse permission, the matter be referred to the Postmaster General.

Comment: This type of transmission will allow Amateurs to obtain experience in wide-band radio, etc., which is legitimate field for experiment. It will help to more fully occupy the bands, and there is no danger of interference to service of the Government. Only a portion of the bands would be set aside for music, i.e. 53-54 Mc. 147-148 Mc. Despite a recent refusal, the matter is considered worth pursuing.

7-13. VK2.—That F.E. request the P.M.G. to adopt the following policy for the re-issue of Amateur Call Signs:—

(a) Any call sign relinquished due to death of the holder should not be re-allocated for a minimum period of 10 years.

(b) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(c) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(d) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(e) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(f) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(g) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(h) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(i) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(j) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(k) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(l) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(m) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(n) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(o) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(p) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(q) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(r) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(s) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(t) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(u) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(v) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

#### SUBSCRIPTIONS

► Please pay your Subscriptions PROMPTLY when due. Failure to do so may result in the loss of valuable issues of "Amateur Radio." High costs of production make it necessary to limit the number of extra copies printed each month.

(b) Any call sign relinquished for any other reason should be re-allocated for a minimum period of 5 years.

(c) An Amateur applying for a re-issue of a license after a period of being non-licensed shall if he so requests be issued with his previous call sign if available.

(d) An Amateur changing from one State to another shall on request be issued with the same letters in his call sign if these are available. The periods mentioned in (a) and (b) shall not include periods during which Amateur activity is banned.

Comment: Although some of the points mentioned are probably observed at present there have been instances where calls of deceased Amateurs have been re-issued to the embarrassment of the period mentioned in (b) well known by their call letters and these should be retained to avoid confusion and preserve continuity.

7-14. VK3.—That the cure of h.c.i. should not be solely the responsibility of the Amateur concerned in cases where the interference is caused by circumstances beyond his control.

Comment: There have been cases of non-co-operation by Listeners which have made the cure and even the observation of interference by the Amateur impossible. Yet he is frequently the only one in such cases a solution of the problem is not possible.

7-15. VK5.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-16. F.E.—That Federal Executive's negotiations with the Civil Defence authorities on behalf of the W.I.A. be discussed.

7-17. F.E.—That this Convention consider the minutes of the meetings of the Joint Services Communication Committee at which F.E. represented the Wireless Institute of Australia.

7-18. VK2.—That F.E. prepare a case for submission to the P.M.G.'s Department defining power limits to be used with various types of Amateur transmission based on an input limit of 250 watts in place of the present 100 watts and the extension of the limit to 500 watts in a form satisfactory to the Institute. F.E. shall submit it to the personal attention of the General Secretary.

Comment: At the present time there are various types of Amateur transmission for which logical power limits have not been set. In the increased use of the limit of 100 watts should be remembered that many countries have higher limits than our own and few of the countries use the limit of 100 watts. It is in a form satisfactory to the Institute, F.E. shall submit it to the personal attention of the General Secretary.

7-19. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-20. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-21. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-22. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-23. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-24. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-25. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-26. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-27. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-28. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-29. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-30. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-31. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-32. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-33. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-34. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-35. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-36. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-37. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-38. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-39. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-40. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-41. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-42. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-43. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-44. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-45. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-46. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-47. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-48. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-49. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-50. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-51. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-52. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-53. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-54. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-55. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-56. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-57. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-58. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.

7-59. VK3.—That the P.M.G. be approached to allow any Amateurs to record and re-play on tape any recordings made by another Amateur transmission at the request of the Amateur concerned.



Manufacturers of . . .

High Grade Woollen and  
Worsted Textiles since 1875.

# THE CASTLEMAINE WOOLLEN CO. LTD.

## CASTLEMAINE - - VICTORIA

★  
A G E N T S  
I N   A L L  
C A P I T A L  
C I T I E S



- BLANKETS
- FLANNELS
- SADDLERY CLOTHS
- TWEEDS
- WOOLLEN & WORSTED COATINGS
- WORSTED YARNS
- WORSTED SUITINGS
- WOOLLEN & WORSTED FROCKINGS
- SPORTS COATINGS
- SPORTS TROUSERINGS
- WOOL TOPS





# Jubilee VK-ZL DX Contest 1951 Results

Here are the results of the 1951 Jubilee VK-ZL DX Contests sponsored by the Commonwealth of Australia and organised by the Wireless Institute of Australia in association with the New Zealand Association of Radio Transmitters. The Contest was quite well supported, approximately 500 Logs being received—335 c.w., 180 phone and 65 receiving. This return must be considered as excellent in view of the fact that the Contest clashed with a Simulated Emergency Test in the U.S.A., thus reducing the entry from one of the main supporters of the VK-ZL Contest. Again, in Australia, conditions were very poor, particularly during the first week-end when the whole of the East Coast of Australia was in the throes of an electrical disturbance making conditions very bad.

Some adverse comment has been received by the Contest Committee regarding the right to select a twenty-four hour operating period. Quite a number of competitors were of the opinion that each contest should be on for the same period, e.g., that the contest should be of 24 hours duration from, say, 10 o'clock Saturday until 10 p.m. Sunday night, thus making conditions equal for everyone. Again, a number of stations continued operating after their twenty-four hours were up, and check logs for the additional time, thus defeating one of the objects of the selected period, namely the reduction of QRM. Again confusion was caused as some stations hearing others going did not think that there was any time limit.

VK2DQ will receive a Trophy as winners in their respective countries.

The Open Phone Section was won by VK4KS with 15,456 points and in New Zealand ZL1HY was successful with 9,447 points. VK2AHA put up a fine all-round performance in running second in Australia for both the Open C.W. and Open Phone.

Following is a description of VK2DQ and VK4KS stations. VK2DQ has five transmitters, all similar and using 6V6 c.e.o., 807 buffer and p.p. 807s p.a. with 40-90 watts on 2, 3, 7, 14, 28, and 50 Mc. Transmitter required is selected from operating position by key switches and relays. Modulator (when used) is p.p. 807s with the usual speech amplifier and a 6AL6 mixer. Receiver: 11 tube double conversion super with band switching, is home-built and incorporates the well known "Selectoject" and a mixer type of i.f. stage which he has designated the "QX" (details of which appeared in last month's issue of this Journal). Antennae: (1) 1/2 and 3/4 Double Section 14 Mc. "WJWK" arranged to give full 360 degrees coverage; (4) and (5) 600 ohm 28 Mc. folded dipoles; (6) 155 feet Zeep used on 7 and 3.5 Mc. Antenna is selected by key switches and relays from operating position.



Keith VK4KS tuning up the rig.

Keith VK2DQ intent on copying that DX signal.

The question has also been raised as to the advisability of including VK1 and VK9 among the Australian Districts. If they were included as DX they could only work VK-ZL stations and possibly they would not like that.

Other than the above comments it would appear that contestants were quite happy about the Contest and in view of the large number of Logs received it would be quite safe to say that the method of scoring was more than justified and it is hoped will be continued in future Contests. Just before we leave this section of general comments. In the phone section quite a number of VKs and ZLs were heard operating in the W phone band and although ZLs are certainly licensed to operate there, VKs when hearing them moved down likewise. This position was to some degree brought about by some W stations stating that they would tune down their own frequency, but nevertheless made receiving rather difficult at times for all concerned.

The Receiving Section was well supported and it was surprising the large number of Logs received from Japan. Some of the comment from the Japanese listeners was very amusing! In the Open C.W. Section, pride of place must go to ZL1MB who topped both Australia and New Zealand with 25,575 points using the band 7-14 and 28 Mc. ZL13OA gained second place with 24,345 points from 325 contacts. ZL1MB had 341 contacts. In Australia, VK2DQ topped the Commeweech with 25,464 from 234 contacts in 96 countries. VK2AHA was runner-up with 224 contacts in 75 countries. As a matter of interest ZL13OA's top contact was 73 and ZL13OA's. Both ZL1MB and

VK4KS: V.f.o. with Class A isolator, 807 doubler, 807 buffer, 813 final. Modulators, a pair p.p. 807s in Class A132, driven by a 6BE6 as a triode, 6SN7 and 6H6 speech limiter and 6SJ7 pre-amplifier, a Tecnicco N80 crystal microphone is used. The antenna is a four element rotary beam 25 feet high with a three element 10 metre beam eight feet above. Receiver is a home-made dual conversion with grounded grid 6J6 and 6AL6 cathode follower to 6SK7 i.f., 1852 mixer, 6SJ7 converter, 1700 Kc. i.f. stage to the second overtor ECH25, crystal locked with three stages of 175 Kc., supplies the a.v.c. 6X1 driver to 6V6 in the output with a 6CS beat oscillator. This receiver is band switched 14 and 28 Mc. The 28 Mc. transmitter is the same line up as the 14 Mc. transmitter. The speech equipment is common to both. The transmitters are remote controlled from a kidney shaped operating console. The equipment is housed in a special radio room built on to the house. All equipment in use is entirely home constructed. In the photograph, 4KS is standing by the 14 Mc. transmitter, the two units in the centre are the speech equipment and to the right is the 28 Mc. transmitter. Separate i.f.o.s. are used. At the top is the 12 inch speaker and call sign, below is the beam indicator which, when the pointer goes past north, automatically cuts the beam color off. At the left is E.S.T. clock and right is

G.M.T. The key also is home made. Two small doors at the top left and right enable entry to the back of the equipment. These doors are kept locked.

BERS-195 won the Receiving Section with a score of 14,970 points, which was a very fine effort.

Awards are now being finalised and those contestants who are eligible should receive same in due course although some little time may elapse. The Federal Contest Committee used the powers conferred on it under Section 11 of the Radiocommunications Act, 1949.

The Committee would like to thank all those Overseas Societies who helped with publicity in making known Australia's Jubilee and the Contest. All contestants are thanked for their participation whether the log was large or only numbered a few contacts. It is the number of participants that makes the Contest.

## C.W. OPEN

AUSTRALIA			
VK2DQ	22464	VK2RA	7198
VK2AHA	16860	VK3DQ	7112
VK2ZC	13090	VK4QJ	7016
VK6RU	11523	VK2EO	6710
VK3PF	10505	VK1JH	5555
VK1O	10095	VK2RU	4905
VK3FH	8316	VK2DI	4306
VK4KS	7930	VK3GD	3348
VK3JA	7743	VK2AIA	2394

Check Logs: VK2AO, VK3ANJ, VK4XJ, and VK5BY.

## NEW ZEALAND

ZL1MB	25575	ZL1MQ	8916	ZL3AG	2368
ZL3OA	24346	ZL1AD	3932	ZL1VJ	601
ZL1HY	11696	ZL1AX	5895	ZL3GG	440
		ZL1JA	2871		

## NORTH AMERICA

United States of America			
W1ASU	14	W4PHJ	65
W2WVZ	2871	W2VIR	18
W2WC	45	W5KC	765
W2ZDP	35	W5FNA	698
W2LWI	23	W5AWT	192
W2KWD	25	W6KWY	75
W2N1Y	1	W6MVQ	5332
W2BOT	1	W6ATO	1496
W3ITR	865	W6WJ	1070
W3JYS	669	W6CIS	544
W3PDX	690	W6ALQ	387
W3WJ	72	W6WJ	589
W3CQS	21	W6AM	288
W4GBO	867	W6WQV	270
W4DCE	152	W6WQV	91
		W6EJA	108

Check Log: K2XC, VEXXY, VEXYV, Mexico KE1PU 36

VERGI 360, VE3CK 261, VE3BHR 49, VE3RO 9

Check Logs: VE1UC, VE3SR, Honduras HRIAT 84, Puerto Rico RP4KD 170

VE1UC 49, VE3SR 9, Brit. Hondur. VFLAA 63, Virgin Is. VK4IA 1008

EUROPE: Madaira Is. CZTAA 90, OZTIG 253, Netherlands OZTIG 108, PAOVB 228, PAOZL 16, PAOIN 8

SM5L 456, SM5CO 440, SM5AQ 380, SM5Q 380, SM5LX 45, SM5AK 36, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380, SM5Q 380

Algeria FA8DA 312	AFRICA Union of S.A. ZSSU 72 Check Log: ZS6IX	Mauritius VQ8AF 8	Canada VE7AH 234 VE8WZ 42	Costa Rica TI0OE 248	Cuba CO2MG 3 CO8OK 2	Fiji VR2CG 3224 VR2BJ 860 FOAB 224	OCENIA Hawaii KH5L 2320 KH8ADY 224 KH8AEH 20	Guam W0EAD KG6 84
Fiji VR2CG 7004 Hawaii KH5L 2574	OCENIA W0EAD KG6 12	New Caledon. FK8AL 910	Brazil PY4IU 12 PY1ANU 4	CHILE CE1AJ 158	EUROPE Madrera Is. CT3AE 44	Switzerland HB9LA 248	Asia Malaya VS8BS 923 VS1CZ 288 VS1EL 196 Formosa CSMY 66	Japan JA2MI 2970 JA2DK 1177 JA2AG 1100 JASCO 520 JA200 4
Brazil PY1ADA 405	SOUTH AMERICA Falkland Is. VPSAI 1	Venezuela YV8AE 729	England G3DZP 810 G2AJ 670 G3GEO 392 G3KX 322 G3DVM 44	Denmark OK2ZJ 1 OZ1SP 4	France F3OX 208 F3FT 132	Netherlands PA0NU 115 PILJ 48 PACTA 4	Spain EA3FW 1	3.5 Mc. PHONE NEW ZEALAND ZL3FM 1
Burma XZ2EM 1050	ASIA Hong Kong VS8BJ 1253 VS8CG 770 VS8BA 720 VS8CF 390	Japan JA2HI 1802 JA200 154	Scotland GM8MM 360	Germany DL3IB 50	Sweden SM5LL 45 SK8AP 6	Union of S.A. ZS6JS 64	7 Mc. PHONE NEW ZEALAND ZLIMQ 4	
Ceylon VS7NG 1008	Israel 4X4RE 957	Malaya VS1DZ 2912 VS1EJ 810	Libya MD2AM 125	Tunisia JV8UB 189	Switzerland HB9LA 248			
Formosa CSMY 720								
C.W. 3.5 Mc. BAND								
VR3KS 1		ZLACD 1						

C.W. 7 Mc. BAND		
AUSTRALIA		
VK3JE 1000	VK3FH 735	VK3AH 228
VK3DG 925	VK3DI 429	VK3XB 198
VK2GW 846	VK3DQ 320	VK3FA 49
	VK2EC 280	
NEW ZEALAND		
ZL3LL 1755	ZL3CH 1180	ZLIMQ 520
ZL3OX 1480	ZL1MB 952	ZL3JA 264
ZL3ACV 1386	ZL1PN 854	ZL1IB 9

C.W. 14 Mc. BAND		
AUSTRALIA		
VK3KX 10615	VK3YD 1762	VK3ASB 320
VK3BO 8532	VK3AWW 1782	VK3ZT 1
VK2DG 9348	VK3PL 1764	VK2PV 163
VK4DA 8095	VK2MT 1820	VK5EH 154
VK2AH 7245	VK3J 1288	VK2ABE 139
VK2EC 9354	VK3QA 1354	VK2AND 108
VK2DA 5600	VK3WV 1276	VK3ACI 71
VK4EL 5535	VK7LJ 1150	VK2VW 63
VK3Y 5500	VK2OW 943	VK3BS 54
VK3PH 5282	VK3ACW 874	VK3BZ 49
VK3JE 5151	VK2ASW 890	VK3WO 45
VK3NM 4384	VK7RK 540	VK3CZ 42
VK6RU 4633	VK3AHM 476	VK4RH 42
VK4KS 4280	VK3CX 468	VK3RM 42
VK3JA 3970	VK3BS 455	VK3XB 30
VK3DQ 3384	VK3AJ 434	VK3DW 24
VK2OY 3045	VK3RJ 384	VK3AEP 15
VK3RH 2997	VK3MT 375	VK3SL 15
VK2AM 1980	VK3H 357	VK3SK 15
NEW ZEALAND		
ZL1MB 10560	ZL3AK 1456	ZL2ACV 748
ZL3OA 8450	ZL1RD 1107	ZL1NZ 720
ZL3AW 8216	ZL3JA 920	ZL1QW 480
ZL3AZ 3205	ZL1Q 868	ZL3IA 377
ZL3GS 2923	ZL1FE 864	ZL3CP 288
ZL1MQ 2450	ZL2G 840	ZL2GX 224
ZL3MN 1720	ZL3AFZ 605	ZL1MT 77

C.W. 27 Mc. BAND		
AUSTRALIA		
VK2RA 25	VK2HA 9	VK2ZC 1
C.W. 28 Mc. BAND		
AUSTRALIA		
VK6RU 990	VK2BG 462	VK2RA 300
VK3AH 615	VK2ZC 364	VK4DO 40
VK4KS 532		VK5FH 6
NEW ZEALAND		
ZL1HY 810	ZL1MB 620	ZL3JA 238
	ZL1MQ 630	
PHONE OPEN		
AUSTRALIA		
VK3AS 15456	VK2AM 3266	VK4KW 1155
VK2AH 8000	VK2JA 2754	VK4DZ 775
VK3IG 6360	VK3ATN 2448	VK4XJ 46
VK6RU 5586	VK2AMV 1612	VK3PG 170
VK4KS 4850	VK2BG 1274	VK3ASB 154
VK3DG 4512	VK3LC 1246	VK7LZ 123
VK4CB 3570		VK3BA 2
NEW ZEALAND		
ZL1HY 9447	ZL1MQ 5616	ZL1PV 96
	ZL3OA 5205	

NORTH AMERICA		
United States of America		
W2WZ 308	W5QIX 25	W6LYG 1
W3LXE 12	W6DI 2128	W7PUM 420
W4HA 130	W7LJ 144	W7AHK 310
W5IX 136	W6WJ 120	W7DL 161
W6KC 80	W6WJX 162	W7HAD 135
W5LEF 35	W6SQP 30	W8JIN 704



Centre Trophy: VK3DG and ZL1MB, winners Open C.W. DX Contest; Right Trophy: VK4KS and ZL1HY, winners Open Phone DX Contest; Left Trophy: VK3KX and ZL3JA, winners Jubilee Relay.

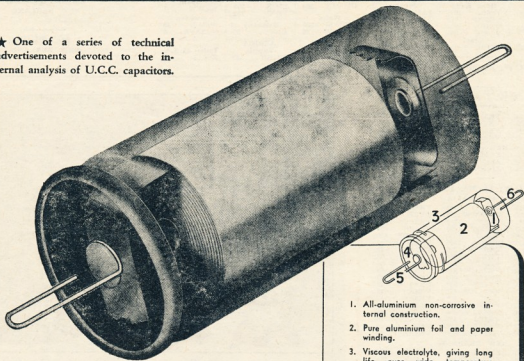
14 Mc. PHONE		
AUSTRALIA		
VK3LN 7606	VK2AHM 770	VK4LM 162
VK4KS 5303	VK2AHP 693	VK3VW 150
VK3IG 5940	VK5E 576	VK3VQ 140
VK3BE 4608	VK3DQ 405	VK2SJ 120
VK2AH 4438	VK3WV 357	VK3HL 104
VK6RU 4633	VK2MT 384	VK3AJ 84
VK2AT 2604	VK2ATA 312	VK2BQ 77
VK6RU 2582	VK3Y 308	VK2ATE 77
VK5MS 2178	VK3ADW 308	VK3AGT 70
VK3AUP 2100	VK2AU 252	VK2ABW 45
VK2DA 1765	VK4DO 216	VK3MX 45
VK6PJ 1430	VK3ALY 208	VK3DG 35
VK2AT 1232	VK3WM 198	VK4GA 30
VK6VM 868	VK2AAB 152	VK5AX 28
VK3L 862	VK2XZ 187	VK3AGX 20
VK3AZX 880	VK4DI 162	VK2AB 20
VK2WT 792		VK3IACD 9
NEW ZEALAND		
ZL3CG 6048	ZL2AM 1000	ZL3QG 504
ZL1HY 4195	ZL3LL 690	ZL2AAH 210
ZL1MQ 2627		ZL4GA 190

28 Mc. PHONE		
AUSTRALIA		
VK4KS 2078	VK4EL 595	VK2FP 135
VK2AH 9670	VK6RU 561	VK3IG 66
VK3TS 840	VK6KX 406	VK3YS 14
VK3GW 814	VK4DO 179	VK5LC 24
NEW ZEALAND		
ZL3LE 2775	ZL1MQ 465	ZL3QI 330
ZL1AH 2214	ZL1KW 351	ZL4GC 84
ZL1HY 855		ZL2HG 21
RECEIVING SECTION		
AUSTRALIA		
B.E.R.S.-105 14070	Smyth 802	
	McIlhatton 792	
	Dash 338	
	Jones 345	
	Edwards 160	
	McLeod 840	Pearce 66
NEW ZEALAND		
O'Grady 8784	Burgess 1044	
Gray 7084	Gould 1914	
Kan 3342	Ryder 861	
McStay 3060	Gawler 828	
Hardwick 2348	Fackman 162	
EUROPE		
Austria		
OE-403 1547	HEBROX 384	
OE-196 894	HEBROK 248	
OE-323 714	Gibraltar 224	
OE-347 276	B.E.R.S.-745 224	
OE-180 197		
OE-515 171	Engberg 175	
OE-325 112	England 1944	
OE-450 12	B.R.S.-1522 573	
Czechoslovakia	B.R.S.-19107 126	
OK3-10603 78	B.R.S.-15846 126	
ASIA		
Japan		
Hashida 2460	JA2-250 184	
JT-42 1530	JA2-190 182	
J5-169 1404	J2-38 176	
J1-689 790	J3-332 174	
J1-829 680	Nishimura 168	
Akimoto 530	J2-172 96	
JA2-86 550	JA3-347 15	
Higuchi 530	Nakazima 12	
J1-648 528		
Check Logs: Taniguchi, Ito, J2-30, JA8-21, Saito, Mizoguchi, J6-181, Tanaka, Shimizu.		



# Capacitor leadership -from the inside!

★ One of a series of technical advertisements devoted to the internal analysis of U.C.C. capacitors.



## Just SIX of many reasons...

why the U.C.C. Electrolytic Capacitor is so often specified. The U.C.C. range of dry electrolytic capacitors is fully tropical and compact. The design permits their use over a wide range of operating temperatures. Voltage: 1.5 to 525 volts peak. Capacitance: 1 mfd. to 2,000 mfd.

1. All-aluminium non-corrosive internal construction.
2. Pure aluminium foil and paper winding.
3. Viscous electrolyte, giving long life over wide temperature range.
4. Full hermetic rubber sealing to tube and rivet.
5. Tinned copper leads for safe and easy soldering.
6. Separate negative tag; no "open-circuits" due to chafed foil in case spinning.



## *Electrolytic* **CAPACITORS**

UNITED CAPACITOR CO. PTY. LIMITED

433 Punchbowl Road, Enfield, N.S.W. Telephone: LF3511

Associated with Tecnico Limited, Australia; and Telegraph Condenser Co. Ltd., British Insulated Callender's Cables Ltd. and United Insulator Co. Ltd., England



# FEDERAL, QSL, and DIVISIONAL NOTES

## FEDERAL

### 22nd ANNUAL FEDERAL CONVENTION

Not long after this issue of "Amateur Radio" appears on the bookstands and reaches familiar members of the W.I.A., the 22nd Annual Federal Convention of the Wireless Institute of Australia will be in session.

Upon the decision of Federal Council at the 21st Annual Federal Convention, this year's Convention is sitting in Sydney. Delegates will arrive there on the 10th April from all States of the Commonwealth to deliberate on the context of the Convention, the Wireless Institute at a W.I.A. Federal Convention—in all 72 items exclusive of general business items.

The Convention will open at 1 p.m. on Friday, 11th April, and continue through until some time in afternoon of Monday, 14th April.

The following officers of the W.I.A. will be present:

Mr. G. Glover, 3AG, Fed. President.  
Mr. G. Weynton, 3XU, Fed. Vice-President.  
Mr. H. Hill, 3ZS, Sec. Secretary.  
Mr. G. Manning, 3XJ, Fed. Treasurer.  
Mr. W. Gronow, 3WG, Fed. Publicity Officer.  
Mr. V. Wilson, 2VN, N.S.W. delegate.  
Mr. J. Doyle, 3XJ, Fed. observer.  
Mr. C. White, 3AUP, Vic. delegate.  
Mr. L. Jackson, Vic. observer.  
Mr. E. Burns, 3RS, Qld. delegate.  
Mr. W. J. Bullin, 5EXX, S.A. delegate.  
Mr. J. Coulter, 5JD, S.A. observer.  
Mr. R. W. Hugo, 8KW, W.A. delegate.  
Mr. J. O'May, 3XJ, Fed. observer.

Elsewhere in this issue will be seen the agenda for this Convention. Your member-delegate—and observer where a Division has sent one—will sit at the Convention table right over the Easter holiday period and decide matters of considerable importance to the future of the future of Amateur Radio and the Wireless Institute of Australia.

If you are interested—and all members should be—you are cordially invited to attend the Convention and listen in on the proceedings. With the exception of Friday, 11th April, and Sunday, 15th April, Convention sessions will commence at 10 a.m. on the above two days. It will be held on the premises of Associated Newspapers Ltd., 60 Elizabeth St., Sydney, N.S.W.

## FEDERAL QSL BUREAU

RAY JONES, VKIRI, MANAGER

Although Felix FKBAK left Noumea by ship on March 5 for his furlough in France, the old QSL Bureau address: Box 104 Noumea, still holds good for a few days. Mr. FKBAK will take care of cards addressed to the Box.

The R.C.A. (Italy) with QTH Box 172, Ravenna, Italy, announces a new award—the W.A.I.P. (Worked All Italian Provinces). The Rules provide that claimants must have proof of contact with 60 of the 75 Italian Provinces and must submit these cards to the R.C.A. A list of the Provinces is held at this Bureau. The R.C.A.—a newly formed body apparently in opposition to the A.R.I.—seems to be following the pattern which we have seen in many other European countries during the past 10 years and it is hoped that this division does not indicate a further split in the amateur community.

CJJK, Jack, of Box 419, TAIPEI, Taiwan, has presented me with a new problem. He has sent me a multiple card with 14 Mx phone contacts with VKQDB at 2101 RS 56/7; VKAKC 2117 RS 56/7; and VKAKN 2135 RS 58. All on 11th November, 1951. To whom do I send this card?

Rob VK3RG expects to be leaving for Macquarie Island in April. His call sign there is 2YB. He is a very keen amateur and will be bound during March to tie up a few loose ends prior to his departure for Macquarie Island.

For a while now, the W.I.A. has a QSL card from VKIVU as his African confirmation. This is interesting as it is the first card from VKIVU actually by this Bureau, and proves that he is definitely back in the W.I.A. community. It is stated that he, through an intermediary, offered to fill out and despatch all cards on behalf of VKIVU. The intermediary was given a list of cards. This generous offer is alleged to have brought forth the reply that "They can all go and jump in the lake, both of them." or more forcible and unpalatable words to that effect.

Frank Clark, VKAPC, expects to visit Melbourne on vacation during the middle of April. Trevor Boyd, ex-VKIRI, whose QTH is now P.O. Stratford, via Cairns, Qld., expects to be heard under a VK4 call sign shortly. Trev,

The Divisional information usually published here will in future appear in the March, June, September and December issues only.

cleaned up his backlog of VKI QSLs but unfortunately a considerable number of cards is owed to him, by VK stations, particularly. Trev forwards a list of the outstanding VKIs through B.E.R.U. The list is so large that it indicates they must be held up somewhere along the line. If Divisional QSL Managers, particularly VKs, are holding any cards for Trev, please forward them to the above QTH.

The accuracy of a listing in January "A.R." to the effect that New Amsterdam Isld. (FBZZZ) is in Zone 29 is disputed by a correspondent who states that the FBZZZ card he has shows the position of the island as Long. 77°E. Correspondent claims that Zone 29 joins Zone 39 at Long. 80°E, and cites the N.Z.A.R.T. list as showing the island as in Zone 39 which he claims is correct. Could the DX C.C. Manager publish a ruling on this point?

Another correspondent to know how the Newcastle Ham won the "Jubilee DX Contest" and already have their cups as published in March "A.R." seeing that no results have been published or other section winners informed.

Writer expected that notes for this column would be brief or entirely non-existent this month (March) due to absence on vacation. However, due to a number of reasons including the necessity for chiropractic treatment to "offset" the onset of infirmities usually associated with advancing age, made it impossible to leave Melbourne. So the "gold in them thar hills" stays put for at least a further twelve months.

## HER MAJESTY'S REPLY

The following reply was received from Her Majesty, Queen Elizabeth II, in answer to a message of sympathy from the members of the Wireless Institute of Australia on the recent passing of her Father, King George VI:—

Clarence House,  
St. James.

The Private Secretary is commanded by the Queen to thank the Wireless Institute of Australia for their kind message of sympathy, which Her Majesty much appreciates.

18th February, 1952.

Managing a QSL Bureau has not many advantages, but disadvantages aplenty, one of which is the handling of cards from DX stations worked by the Manager but who miss out on the QSL. This has happened on so many occasions even with stations that QSL 100%, such as YBZLL, FOAAR, HRV, etc.

A panel on page 16 of March "A.R." relative to the forthcoming B.E.R.U. Contest, 1952, indicates that further information can be obtained from the Divisional Secretary or the Federal QSL Manager. Up to the moment of writing (March 8) neither the VK3 Divisional Secretary, Federal Secretary, nor the Federal QSL Manager has any further info or copies of the rules. This will explain to applicants why so far I have been unable to fulfil their requests.

## NEW SOUTH WALES

The February meeting of the N.S.W. Division was held at the Science House, Gloucester Street, Sydney, on Friday 22nd, with President Mr. John Moyle in the chair. Sixty members attended the meeting which opened at 8 p.m. The preliminary business was quickly disposed of and a very interesting and useful "Portable Equipment" was given by Mr. Bob Zuker with a demonstration in which he was assisted by Mr. Innes.

He dealt first with the subject in general. The merits of different frequency bands, frequency modulation or amplitude modulation,

antennae, etc., and then described in more detail several commercial models with emphasis on the special merits and purposes of each. He had two of the most wonderful "Hams" on our mouths water! They were the perfect example of how to build a twenty-two tube ham transmitter, one of which was only ten inches long and four inches wide without any suspicion of crowd anywhere. The other was sub-miniature of course. There were probably a good many "Hams" who were capable of putting together a job like that, not me though!

Mr. Braided and some of the boys took one of the sets walk-around round the streets among the tall steel-framed buildings while the other was operated in the hall and only once for a few seconds did the strength drop a below maximum. Mr. Zuker then acted as "Aunt Sally" for questions and the boys fired them at him point blank. He had all the answers though, and then some. A vote of thanks was moved by Angus Robertson and passed by acclamation.

The meeting was then opened for general business and the President exhorted members willing to do their bit for the W.I.A. to come forward and come forward they did. In view of the agenda item to be discussed at the coming Federal Convention suggesting that Headquarters be moved to Sydney, the P.G.C. was enthusiastically received.

A suggestion from the chair that the P.G.C. be asked to issue two new classes of licenses, "Novice" and "Technician" license, was enthusiastically received. More was discussed with many constructive ideas coming forward, a motion to implement the suggestion was passed unanimously. More was discussed of this 'ere long and it may be the turning point for the hobby in this country. The matter will be discussed at the Federal Convention.

## VISITORS TO URGUNGA CONVENTION

An excellent suggestion has been received from Clell 2XO asking all visitors to Urgunga to bring with them any portable or other equipment in order to give the visitors and others interested just how equipment being constructed for the v.h.f. As can be seen, this could be an excellent opportunity to assist the country and give the v.h.f. higher frequencies, and one that will not be repeated for a long time. The lads themselves will be known who in best working order the details they were not clear on when they started on the v.h.f.

## NORTHERN SUBURBS

Many thanks to Harold 2AQ and John 2ANF for assistance in compiling these notes. Any news of Ham activity in this or any area will be very much appreciated. Gerald 3AGS back on 40 after a trip to England. Mac 2ML about to call in at Urgunga on the way. Bill 2WPF is busy constructing a rotary W&K for 20 mX and the Many Gang intend giving a hand in the erection of same. 2AEN busy with photography and not heard as much these days. Stan 2ASH has left us and gone to Canberra far from the YL now Stan? Harold 2AQ recently returned from a pleasant holiday in VK3 where he met a number of Hams. Alan 2FH in active of late, hopes to be back in the area shortly when the 20 mX beam will be put into operation again. Adrain 2IE, a new Ham in the area, has been active in the area with Ham Radio be a very happy one Adrain.

Of interest to all zones: Bob Black VKQZ is going to the island and head of the area. He is out the gear he intends taking with him on the trip, which he expects to last about five months from the beginning of March. Should be a new county active on 20 mX as VKQZ/VK3.

Dave 2EO changing the elusive DX on 20 mX. Dave 2EO is content with his 20 mX beam in threes of building his first beam and tower. 2AMB heard chasing DX on 40 and 20. Loyell 2LW is active on 20 mX and has been heard on the GRM and QRN; hope you make a big score. Loyell, John 2ANF had a visit from Ken 2ANU of Muswellbrook who is holidaying at Mona Vale. Complete with portable 20 mX beam. Ray 2YM is expecting to move into a new residence shortly; heard he had his car stolen and was very disappointed. Ray 2YM and Ray 2BG busy building a new house in the Dundas area and has been heard on 6 mX only once.

These notes like to help compile them? A short note covering the Ham activity in your area sent to your Zone Correspondent or to the Editor will be very much appreciated. The addresses were given at the top of page 13 in last month's issue.

Visited Ce Cronan who listens on v.h.f. very often. Has been active mobile. 2YV listening on 50.15 Mc every night mobile. 2YR has shifted to 50.15 Mc again. 2YU is still active on 50.15 Mc. Ted 2XX active on all v.h.f. bands as usual. Newcomer to 6 mX, Collin 2ACK, welcomes contacts every night. Barry 2AG is also active on 6 mX regularly, and will welcome contacts on any band. Tom 2IY is to be heard on 6 mX again nightly. 2ADW is back on 6 mX again. 2YB is still active. Joe 2JRQ can be heard with very nice 6 mX signal. 2PKF very quiet lately, what's doing Tom? 2XH threatens to put a signal on 2 mX. 2YD is still active on 2 mX. 2YH is now operative! Charlie 2AZK building 576 Mc gear. (Chas. 2YK has been busy studying television theory and electronics. He may be much appreciated. Thanks Chas.—Sub-Ed.)

Much the usual activity has been evident in this area during the last month. The bands have not been so good on the whole, but despite that, most have made the best of conditions offering. 2AAB has been by car to VK3 and while there had time to visit one Ham

The Burwood Radio Club meets at Greenwood Hall, Liverpool Road, Enfield, each Tuesday night, all interested are welcome. This club has now applied for a transmitting license, and it is hoped to commence operations in the near future on 144 Mc. Operations on other bands will follow.

2AGU only heard on few occasions these days, busy with work seems to be the reason. 2SC putting out a nice signal, reading the mail we hear that Sam suffered a lightning strike to his rig despite the arrestors, little damage done fortunately, and business as usual. 2AHU finds a little time to get on the air, but busy with domestic chores. Will be v.f.o. controlled one day. 2LG worked on 20 recently, putting nice signal out on that band.

The above club is busy training candidates for the forth-coming examinations. The club station 2AMW can be heard every Wednesday evening on 40 mx—is v.f.o., using a Clapp osc. At the moment a new freq. meter-monitor is being built by the members.

Ern 2AHY (ex-HYI) has been constantly operating 2AMW's rig but has now portion of a 40-20 mx 50w; rig built and hopes to operate from his own QTH. Don 2AFD using a Type A Mk. III. from new QTH at Woonona, build- ing a 40-20 mx 50w for 40-20 and 40-10. Heard 2AMD busy building separate finals for 40-20-10-6 in a new rack, fully metered; can be heard on 20 c.w. Col 2AGZ experimenting with 2 mx gear, should be putting signals out soon; heard working 20 mx DX on h.w. vertical with much success. Eric 2DY not very active due to work. Building a 40-20 vertical, 20-10, using 455s; his problem comes in how to solve bear of over-

Harry 2A0X heard on 20 working VIK6, 7, W, JA and a VRI; sorry to hear the OM has to QRT for 2 months for health reasons; best wishes Harry. Kevin 2AFF only heard on leave from R.A.J. (Melb.) on 40 and 20; has received some nice letters from R.A.J. Charlie 2MT heard chasing DX on several bands, good work Charlie old boy, but don't keep such late hours. John 2AUB in camp, will be out shortly and will regain his ear-bashing championship from the local boys working 40 mx. John 2VH seen QTH for a while, but will vacate his QTH has a new home almost completed and will be on the air again this month.

The event of the year will take place on April 12, 13 and 14 at Uruunga. It is the "Annual Dog" of the North Coast gang which has proved to be the most popular in the area. A large number of people in fact that some of the chaps have returned there for their holidays and Hare 21C has been known to be there for a long time. Visitors to Uruunga include 2AMV, 2DK, 2QL. If you wish to meet some of the chaps to whom you have spoken so often, then this is the time. There will be a lot of dogs and some definite starters are 2XO, 2QV, 2AHN, 2U, 2KR, 2AKY, 21S, 2WH, 2ANZ, 2ACD, 2AAB, 2AK, 21M, 21G, 21H, 21J, 21K, 21L, 21M, 21N, 21O, 21P, 21Q, 21R, 21S, 21T, 21U, 21V, 21W, 21X, 21Y, 21Z, 21AA, 21AB, 21AC, 21AD, 21AE, 21AF, 21AG, 21AH, 21AI, 21AJ, 21AK, 21AL, 21AM, 21AN, 21AO, 21AP, 21AQ, 21AR, 21AS, 21AT, 21AU, 21AV, 21AW, 21AX, 21AY, 21AZ, 21BA, 21BB, 21BC, 21BD, 21BE, 21BF, 21BG, 21BH, 21BI, 21BJ, 21BK, 21BL, 21BM, 21BN, 21BO, 21BP, 21BQ, 21BR, 21BS, 21BT, 21BU, 21BV, 21BW, 21BX, 21BY, 21BZ, 21CA, 21CB, 21CC, 21CD, 21CE, 21CF, 21CG, 21CH, 21CI, 21CJ, 21CK, 21CL, 21CM, 21CN, 21CO, 21CP, 21CQ, 21CR, 21CS, 21CT, 21CU, 21CV, 21CW, 21CX, 21CY, 21CZ, 21DA, 21DB, 21DC, 21DD, 21DE, 21DF, 21DG, 21DH, 21DI, 21DJ, 21DK, 21DL, 21DM, 21DN, 21DO, 21DP, 21DQ, 21DR, 21DS, 21DT, 21DU, 21DV, 21DW, 21DX, 21DY, 21DZ, 21EA, 21EB, 21EC, 21ED, 21EE, 21EF, 21EG, 21EH, 21EI, 21EJ, 21EK, 21EL, 21EM, 21EN, 21EO, 21EP, 21EQ, 21ER, 21ES, 21ET, 21EU, 21EV, 21EW, 21EX, 21EY, 21EZ, 21FA, 21FB, 21FC, 21FD, 21FE, 21FF, 21FG, 21FH, 21FI, 21FJ, 21FK, 21FL, 21FM, 21FN, 21FO, 21FP, 21FQ, 21FR, 21FS, 21FT, 21FU, 21FV, 21FW, 21FX, 21FY, 21FZ, 21GA, 21GB, 21GC, 21GD, 21GE, 21GF, 21GG, 21GH, 21GI, 21GJ, 21GK, 21GL, 21GM, 21GN, 21GO, 21GP, 21GQ, 21GR, 21GS, 21GT, 21GU, 21GV, 21GW, 21GX, 21GY, 21GZ, 21HA, 21HB, 21HC, 21HD, 21HE, 21HF, 21HG, 21HH, 21HI, 21HJ, 21HK, 21HL, 21HM, 21HN, 21HO, 21HP, 21HQ, 21HR, 21HS, 21HT, 21HU, 21HV, 21HW, 21HX, 21HY, 21HZ, 21IA, 21IB, 21IC, 21ID, 21IE, 21IF, 21IG, 21IH, 21II, 21IJ, 21IK, 21IL, 21IM, 21IN, 21IO, 21IP, 21IQ, 21IR, 21IS, 21IT, 21IU, 21IV, 21IW, 21IX, 21IY, 21IZ, 21JA, 21JB, 21JC, 21JD, 21JE, 21JF, 21JG, 21JH, 21JI, 21JJ, 21JK, 21JL, 21JM, 21JN, 21JO, 21JP, 21JQ, 21JR, 21JS, 21JT, 21JU, 21JV, 21JW, 21JX, 21JY, 21JZ, 21KA, 21KB, 21KC, 21KD, 21KE, 21KF, 21KG, 21KH, 21KI, 21KJ, 21KK, 21KL, 21KM, 21KN, 21KO, 21KP, 21KQ, 21KR, 21KS, 21KT, 21KU, 21KV, 21KW, 21KX, 21KY, 21KZ, 21LA, 21LB, 21LC, 21LD, 21LE, 21LF, 21LG, 21LH, 21LI, 21LJ, 21LK, 21LL, 21LM, 21LN, 21LO, 21LP, 21LQ, 21LR, 21LS, 21LT, 21LU, 21LV, 21LW, 21LX, 21LY, 21LZ, 21MA, 21MB, 21MC, 21MD, 21ME, 21MF, 21MG, 21MH, 21MI, 21MJ, 21MK, 21ML, 21MM, 21MN, 21MO, 21MP, 21MQ, 21MR, 21MS, 21MT, 21MU, 21MV, 21MW, 21MX, 21MY, 21MZ, 21NA, 21NB, 21NC, 21ND, 21NE, 21NF, 21NG, 21NH, 21NI, 21NJ, 21NK, 21NL, 21NM, 21NN, 21NO, 21NP, 21NQ, 21NR, 21NS, 21NT, 21NU, 21NV, 21NW, 21NX, 21NY, 21NZ, 21OA, 21OB, 21OC, 21OD, 21OE, 21OF, 21OG, 21OH, 21OI, 21OJ, 21OK, 21OL, 21OM, 21ON, 21OO, 21OP, 21OQ, 21OR, 21OS, 21OT, 21OU, 21OV, 21OW, 21OX, 21OY, 21OZ, 21PA, 21PB, 21PC, 21PD, 21PE, 21PF, 21PG, 21PH, 21PI, 21PJ, 21PK, 21PL, 21PM, 21PN, 21PO, 21PP, 21PQ, 21PR, 21PS, 21PT, 21PU, 21PV, 21PW, 21PX, 21PY, 21PZ, 21QA, 21QB, 21QC, 21QD, 21QE, 21QF, 21QG, 21QH, 21QI, 21QJ, 21QK, 21QL, 21QM, 21QN, 21QO, 21QP, 21QQ, 21QR, 21QS, 21QT, 21QU, 21QV, 21QW, 21QX, 21QY, 21QZ, 21RA, 21RB, 21RC, 21RD, 21RE, 21RF, 21RG, 21RH, 21RI, 21RJ, 21RK, 21RL, 21RM, 21RN, 21RO, 21RP, 21RQ, 21RR, 21RS, 21RT, 21RU, 21RV, 21RW, 21RX, 21RY, 21RZ, 21SA, 21SB, 21SC, 21SD, 21SE, 21SF, 21SG, 21SH, 21SI, 21SJ, 21SK, 21SL, 21SM, 21SN, 21SO, 21SP, 21SQ, 21SR, 21SS, 21ST, 21SU, 21SV, 21SW, 21SX, 21SY, 21SZ, 21TA, 21TB, 21TC, 21TD, 21TE, 21TF, 21TG, 21TH, 21TI, 21TJ, 21TK, 21TL, 21TM, 21TN, 21TO, 21TP, 21TQ, 21TR, 21TS, 21TT, 21TU, 21TV, 21TW, 21TX, 21TY, 21TZ, 21UA, 21UB, 21UC, 21UD, 21UE, 21UF, 21UG, 21UH, 21UI, 21UJ, 21UK, 21UL, 21UM, 21UN, 21UO, 21UP, 21UQ, 21UR, 21US, 21UT, 21UU, 21UV, 21UW, 21UX, 21UY, 21UZ, 21VA, 21VB, 21VC, 21VD, 21VE, 21VF, 21VG, 21VH, 21VI, 21VJ, 21VK, 21VL, 21VM, 21VN, 21VO, 21VP, 21VQ, 21VR, 21VS, 21VT, 21VU, 21VV, 21VW, 21VX, 21VY, 21VZ, 21WA, 21WB, 21WC, 21WD, 21WE, 21WF, 21WG, 21WH, 21WI, 21WJ, 21WK, 21WL, 21WM, 21WN, 21WO, 21WP, 21WQ, 21WR, 21WS, 21WT, 21WU, 21WV, 21WW, 21WX, 21WY, 21WZ, 21XA, 21XB, 21XC, 21XD, 21XE, 21XF, 21XG, 21XH, 21XI, 21XJ, 21XK, 21XL, 21XM, 21XN, 21XO, 21XP, 21XQ, 21XR, 21XS, 21XT, 21XU, 21XV, 21XW, 21XX, 21XY, 21XZ, 21YA, 21YB, 21YC, 21YD, 21YE, 21YF, 21YG, 21YH, 21YI, 21YJ, 21YK, 21YL, 21YM, 21YN, 21YO, 21YP, 21YQ, 21YR, 21YS, 21YT, 21YU, 21YV, 21YW, 21YX, 21YY, 21YZ, 21ZA, 21ZB, 21ZC, 21ZD, 21ZE, 21ZF, 21ZG, 21ZH, 21ZI, 21ZJ, 21ZK, 21ZL, 21ZM, 21ZN, 21ZO, 21ZP, 21ZQ, 21ZR, 21ZS, 21ZT, 21ZU, 21ZV, 21ZW, 21ZX, 21ZY, 21ZZ, 21AA, 21AB, 21AC, 21AD, 21AE, 21AF, 21AG, 21AH, 21AI, 21AJ, 21AK, 21AL, 21AM, 21AN, 21AO, 21AP, 21AQ, 21AR, 21AS, 21AT, 21AU, 21AV, 21AW, 21AX, 21AY, 21AZ, 21BA, 21BB, 21BC, 21BD, 21BE, 21BF, 21BG, 21BH, 21BI, 21BJ, 21BK, 21BL, 21BM, 21BN, 21BO, 21BP, 21BQ, 21BR, 21BS, 21BT, 21BU, 21BV, 21BW, 21BX, 21BY, 21BZ, 21CA, 21CB, 21CC, 21CD, 21CE, 21CF, 21CG, 21CH,

Associate Arthur Monk had a pleasant tour visiting Hams on the Western Plains. Fred DXH has been heard at Kempsey working the DX on 100m and 15m. John YLW has been holidaying on the North Coast and is rather concerned at the lack of power point outlets in the area. However, it is noted that however this did not prevent him from making many pleasant contacts with his portable rig even when his battery was on the way down. Fred DXH has been back in the States for a few weeks over his "harmonics" who have not been too well of late but pleased to relate they are all OK. Fred DXH is back home in the States, completely with XYL Ina who has emerged from her recent illness. Likewise Doug 2SH is on the band again after a spell in bed. Richard XYL has journeyed to Nevada to catch a statue and collect a few "soubs" welcomed by the Hunter gang. Missed out on a very interesting 12-minute tour from Norm 2SH on 100m. Fred DXH has been in the max. I could not copy a word! Norm omitted to plug in his mike. However things like that happen to us all at times. 2MH is another respondent who has been in the States who will shortly enjoy his holidays at Urunga.

The following received from Jack 2ADT who is helping out while Harry 2YL has a spell. Quite a number of the chaps in this zone seem to have gone QRT completely as nothing has been heard from them for some time. I am not mistaken in thinking I heard BO 2KP calling a VK5 on 6 mhz one night. Let's hear some more of you and what have you done since. There is much silence in the North as 2ANU is spending a lot of time at Mona Vale. Ken is working portable at this location and putting out a fine signal on 40 and 80. I had to throw this of junk out of the garage and into the bin. Still looking for 144 Mc. but threatens to do something soon.

ZVZ now has a 20 mx beam adorning the back yard so we will be interested to hear how it performs. Here in Cessnock, ZYL reports activity for the month as one night on 20 mx and one on 25 mx. He also reports that he thinks the result if you multiply that by 30 Harry. ZADT has had contacts on all bands from 80 to 2 mx. Conditions on 2 mx have been quite good and VKS contacts on 6 mx are a constant. The local DX scene is also active. We have stirred Major 2RU into bringing some material for a new beam. Not to be on anyone by all the local advice he intends to make it a 5 over 5 according to latest reports. Chas ZARV continues to feed 40 alive in that part of the country. ZMR now has a major of yore, but has been heard on odd occasions.

Rod 2ACU after a three-State 3,000 mile trip, needed a holiday so went to Sydney and bought a new car. Connamble has since had over 200000 visitors and is now the most visited town in the world. It has no miles up; can be unlucky! Graham ex-2AGN, now 3NV, but not on the air as yet. 2VR ex-Broken Hill has secured a flat in the city and is now looking for some place to hang up a sky wire. 2EB celebrated a birthday on the 28th by maintaining a strict radio silence; twenty-one again Bill! Bill 2EMQ planned to be on the air on the 28th but ran out of silence, Phil 2IE will shortly be on the air if recent rumours prove correct; 50 Mc gear nearing completion. A very welcome visitor to the club has been Les Adams, who is well known to many of the older Hams as the "Monitor". In the early 1950's Fred monitored the 200000 visitors to the Sydney State Fair on the Sunday Night VK-ZL round table. During his visit Fred will stay with 2HC, Quirindi. 2DO Raleigh and 2NS Bathurst, also the home of the 2RL Reg Page, of Sunnyside, Mandurama.

From Dubbo it is learned that Max 2II is now in his new home and active on 14 Mc. He uses a multi-element rotary and mighty set. Russ 2AOS is active on 14.7 Mc. 2AFE heard on 7 Mc. 2VZ not heard since Fred moved into new shack. Bill 2ACT inactive as far as can be ascertained. Russ 2AOS is active on 14.7 Mc. 2AFS heard on 14.7 a.c. supply. Newest Ham in Dubbo is 2APX; will be looking for a contact as soon as you get going Eric. 2AMR very kindly supplied a 1000 watt 14.7 Mc. 2AFS and 2AFS QRL with a wolf and the building of a caravan but will be getting 144 gear going this winter. Jack 2OF of Doonside, heard occasionally on

John 2AMV on a caravanning trip on the North Coast looking for any possible places a tax could be hidden round Urunga. For the first twelve days it rained. At 2WH, radio this month has been seriously interfered with by preparing for and recovering from a fishing trip. Yes the big ones got away. Main interest, still trying to make two-way contact with Bathurst and Sydney on 144 Mc.

An exceptionally large roll up at the February meeting was treated to a very fine lecture by 2DZ. Johnny spoke on the "Rothman System of Modulation" and the lengthy and enthusiastic discussion which followed was evidence of the mastery manner in which the case was presented. And we don't mean the brief case from which John pulled the modulator capable of giving enough audio for a 500 watt carrier!

President MCS was in the chair and Lionel extended a hearty welcome to 207 ex-Broken Hill members and guests. There were 100 ladies to have such a progressive Ham in our Branch. Surprise of the evening was announcement by 2MC that he was shortly leaving the district for Tasmania. Mr. President spoke for all when he stated that he was glad to see the loss of Bill, all wished him well in his new venture. Bill's affable manner made him popular with all, and I know from personal experience he was always ready with a helping hand. Best wishes to Bill and his family. The 207 members were pleased to have Vice-President 2AFS again taking active part in meeting.

3.5 Mc. and 7 Mc.	
Unmounted .....	£2 0 0
Mounted .....	£2 10 0
12.5 and 14 Mc. Fundamental Crystals, "Low Drift,"	
Mounted only, £5.	
Spot Frequency Crystals	
Prices on Application.	
Regrinds .....	£1 0 0

THESE PRICES DO NOT  
INCLUDE SALES TAX.

**MAXWELL HOWDEN**  
15 CLAREMONT CRES.,  
CANTERBURY, E.7,  
VICTORIA

The social news this month is the marriage of our good pal ZXY, Most Newcastle Hams have been known to ZXY for some time and he wishes him and XYL Mavis the very best in the future. Many local lads are preparing for Urunga to uphold our prestige against the "Wild Westeners." ZAHA has completed a new rx for 144 hidden tx hunt; Harold pleased with results from 14 tubes. ZHG is taking the family to the beach on the 20th with QRS rig now. ZPT finishing off car radio to provide entertainment travelling to Urunga. Alan is taking a 2000 watt vacuum tube amplifier to the picnic! ZUY and ZNX very quiet lately. Another who is making the trip is ZCN but Bert lying doggo lately. ZIS (with ZAS) will also be in Yungaburra for about 1 or 2 days. ZAGU to Urunga pilgrimage. Making a comeback on 20 mhz. Ron ZAAI found he can still put a good rig into Europe. Bad conditions. ZM stopped ZAAAM from working plenty of DX on 20—helped by his Dad, Merv, experimenting with antennae.

ZGZ cleaned up shack and Jim put sig on 20 for first time since DX contest. George ZAGD putting up "Hop over" beam on 20. The "c'man" ZAFX preparing for holidays at Tuncurry. Still waiting for Fred ZAGY to break long silence. ZMR active on 40 and Edgar making up coils for the Normans ZAMG active on 40. ZCW says he does something called "work" which keeps him off air. Recent shovels caused a pole fire near ZXT's resulting in a fire. ZM has been out of the country on sig on 20 with reconditioned beam perking well. A good 40 phone sig still emanates from ZCJ. ZAGU was out of the country for some time recently worked W.A.C. in quick time. Nil heard of ZANG lately so maybe Bill on 10 too.

Meeting Notice—Special announcement! The April meeting will be held at the 2HR Auditorium, Maitland, on Friday, 4th April, when a special lecture will be arranged by the N.S.W. Association on the subject of "The New Wave" by Hunter. Hams and bring anyone interested. Newcastle members please contact the Secretary re transport. NOTE—First Friday of the month.

## VICTORIA

### EASTERN ZONE

3SG back on the job this month. Ossie ZAHK begged to be excused while he did battle with a home-brew rx and I mean battle! The R.I. did the rounds of the zone during the month. ZAHK's new rig is a 100w. rig. ZAHK has had a free meter! It is rumoured that shortly after the R.I. arrived at ZAHK Ossie and he were seen heading for the local hotel, my word ZAHK will be on the air.

ZIZ putting in a good signal on 3650 Kc. using an AT5 with clamp tube modulation. I'm not sure if this is a new rig or not. ZAHK ZABP, another regular on the hook-ups these days, putting in a good signal also. 3FZ's new rig working very nicely. ZAHK has been out of the zone for some time. Incidentally, Arthur got that radio controlled aircraft working alright, apart from a crash or two. ZAFG is becoming quite active again. He actually had a look at his rig last month. ZALA conspicuous by his silence lately. What is it, fire brigade or YL? Fred Associates Day. See John E. terker. Alan Jacka and Ritchie Matherson are sitting for the A.O.C.P. exam in April. The zone would like to take this opportunity of wishing you the best of luck boys. We are prodigies of the Sale Radio Club.

The Sale Radio Club held its monthly meeting on the usual third Tuesday, when a very good number were present. Graham 3AZ spoke at length on the necessity of fostering portable and mobile work in the zone. This was with a view to possible emergency work in the future. It was decided therefore to hold a portable and mobile Field Day on 6th April. A contest will be held in conjunction with mobile stations, having the higher scoring potential. A set of points was worked out allowing points for working mobile, portable and fixed stations both within and outside the zone. These arrangements were ratified over the zone hook-up and the co-operation of all Hams is required for the success of the Field Day. Will depend of course on the number of stations that are on, so what about it chaps?

### FAR NORTH WESTERN ZONE

During the past few months members of the zone have been doing a spot of re-building. Chas 3TI, having modulator trouble, has tried out several modulators in an attempt to overcome lack of modulation. In spite of all this he has managed to keep the weekly sked with 3WV. Harry 3MF has constructed a new modulator and erected new antenna and hopes to have a signal on the band soon. We'll be listening for it Harry. Now ZADU is busy with harvest but still manages to get to the shack once in a while and work some DX on 20. He is also thinking hard of a system to rotate the old beam with a minimum outlay of cash.

Jim 3AFP has moved to Mildura and now lives one block from 3GZ. Jim hopes to be on shortly. Hold up at present is the shack under construction. Max 3GJ has all-band final working in the TA12 and has beam on 14 Mc., and is changing a lot of c.w. DX.

Big news from Guyton. The a.c. has arrived and Frank has unpacked his beloved Type 3 and I gather he is chasing DX on 20. We don't hear much of Frank on our Sunday afternoon. Frank now in VK3 at Denning. expect we will hear from you soon Fred. We have had some visitors through Mildura over the past few months. Max 3OT, late of Broken Hill, camped at Mildura for approx. a week. Had a nice mobile 40 mhz rig in the car. Bill 3AMH at present at Cardross.

### CENTRAL WESTERN ZONE

The Zone Field Day, which was a disappointment to the organisers, was won by 3ARL. Lin is to be congratulated for his effort as he was persistently hampered by lack of sensitivity in his rx, which resulted in numerous answers to CQs not being heard—you can't keep a good man down.

3ACI has just completed a portable for the car and it seems to work out very well (you'll need it for Horsham Charlie). Charlie is also going on 144 lds and looking for contacts well. I ask you, with another addit to Horsham that should be easy. Keith, who is now nicely settled back in Stawell, is busy building one 30 ft. tower on which to put the old 1 Mc. beam, it won't be long now before 3ACI is back on the air, and with the new 230v. a.c. supply fun and games will be had by all. 3GN, another of the missing ones, has all the gear set up in the new house, but no juice carried a few more poles are erected, and the two-phase supply brought in.

After a few weeks' holiday, 3HL appeared once more on 3.5 Mc. with his usual good signal. Alan finds DX on 14 not so good—have a look on 7 and 3.5 Mc. its there too. ZAFB has completed a new 100w. tx for 14 Mc., however nothing was heard on a test with him last week. The gear has been sent to the zone and out. Dick 3RR and 3AFA have once more tried to imitate the mountain goats and climb Mt. William just to radiate 144 Mc. sigs, you blokes certainly do it the hard way. ZAHK has rumour about a VK4 hearing 3RR on an indoor folded dipole on 2 or 8 m? Never mind, Dick, it's all in the cause of science, and they at least don't call you "Donald Duck."

3ARL has been experimenting with combined control and screen grid modulation using the Clamp tube. Lin finds it a big improvement and now gets 100% modulation. 3YV also finds it an improvement as his receiver gets less of a bashing while Lin is on; Lin also has (believe it or not) been heard on c.w. of late. The next zone hook-up will be held on the second Sunday in April at 1000 hours on approx-

imately 7155 Kc. 3YW in control, will you be there?

### NORTH EASTERN ZONE

3UI building again, this time a crystal controlled converter for 40-20-16 meters; works well on all bands too. 3IJ on holidays. 3AT practicing at being William Tell, so I hear. 3ACI and 3ZM been 3 element rotary. Results weren't as good as expected on the forward gain and had 3UI, 3IJ, 3AFP and 3JC all studying to get over the dome. 3AFP and 3JC, incidentally the front-to-back ratio from all points of the globe has been 30 to 36 db. Beam came down when a guy wire shot through, no much damage—the beam-lifting gain will again be welcome.

3KR getting emergency communications organised in Benalla and district. Pity conditions were so bad for where the mis-match is. 3ACI and 3JC were all listening out for you. 3AGT emerged from the land of the missing for a brief word of advice and information for the zone correspondent. Hope the reply wasn't too fierce Stan. Among those I list as missing are 3ACK, 3PE, 3AGG, 3AJO. Where do these fellows get to in the summer time.

3CI now occupying a major portion of the kitchen, right next to fire too. 3IJ and 3ACW playing with 2 m. 3UI made a hurried visit with 3IJ when fog closed Melbourne down, Mangalore on these days is as busy as Bourke Street. 3GD still working a few on 20 m. 3AT and 3JC, if conversions on antennae is any thing to go by. 3ALE working hard, must be seldom, hear him on. By the by, what happened to that idea of another zone picnic before the weather gets too cold.

### SOUTH WESTERN ZONE

Well fellows, once again it would seem that the zone notes are a little on the mean side, and what news I have, is mainly derived from my very spasmodic listening on 3.5 Mc. Activity in the zone members on bands working here, that is 3.5 and 7 Mc., has not been high. Of those who work 20 and 10 and upwards, I know nothing. At one time news was, in the past, sent from Eildon, Benalla, Wangaratta, nambool areas, but this, after a few spasmodic lapses, finally ceased.

Neil 3HG is heard occasionally on 80 and is a regular on the 3.5 Mc. weekly zone hook-ups. Neil, in spite of the poor conditions, manages to snare some DX. ZADU has been busy this last month, sent in from Eildon, Wangaratta, nambool areas, but this, after a few spasmodic lapses, finally ceased.

3ADN has become quite interested in 144 Mc. again and has renovated the six element beam and installed a three tube converter, but it has heard nothing but auto ignition noises. John and Kevin are able to work through to Horsham now that 3RR has migrated there. 3AKR is busy besides with the farm work, getting together gear for the w.w.v. which is under way. Kevin is also pursuing the same operations as 3ADN. 3AMH had some rather bad

If you want Stability for an outlay of a few Shillings  
you cannot do better than . . .

## Edystone Die Cast Chassis

They pay dividends in the long run.

- EASY TO DRILL AND WORK.
- WILL NOT DISTORT UNDER NORMAL PRESSURE.
- THE ANSWER TO STABILITY.

CAT. NO. 643—8 1/2" x 5 1/2" x 2 1/2" DIE CAST CHASSIS ..... 18/5

CAT. NO. 727—9 1/2" x 12" x 3" DIE CAST CHASSIS ..... 40/-

CAT. NO. 650—4 3/4" x 3 3/4" x 2 1/2" DIE CAST BOX WITH LID 13/3

Plus Sales Tax—Include Freight with Order.

WE HAVE THE LARGEST STOCKS IN AUSTRALIA.  
BUY NOW! THERE WILL BE NO MORE!

**WILLIAM WILLIS & CO. PTY. LTD.**

428 BOURKE STREET, MELBOURNE, C.I.

Phone: MU 2426

Established over 80 Years.



luck with the Renault which left same rather crumpled along one side.

The S.W. Zone Convention will be held on the week-end of 6th and 6th April. The Convention will be held at Geelong and bring along that d.f. equipment as tx hants will be held on the Sunday. — . . . —

## QUEENSLAND

It is with pleasure that I hand over the Sub-Editorship to 4AP. Let's hope you get the co-operation from the some correspondents AH, Good Luck AH OM and I sure look forward to reading your articles. I cannot sign off without thanking Clare for her regular monthly contributions. I hope we will still continue to read your corner, Clare.

Our new Federal Councillor, 4FE, figured in an unusual set-up the other day. He was the VK4 member of a large round table between a W and a VK3 VK3, VK5, VK6, and VK7. Also the same gent heard a VK3 on 144 or was it 288 Mc? I do not know, but anyhow I know he had no Tx to reply on because he had lent it to me. Did I ever tell you about Clare's Pop (4NC) and how he painted himself into the corner of the bathroom? What is more, the paint wouldn't dry for days.

We are very grateful to young 4FP for accepting the job of Secretaryship again. Same goes to the QSL boys too, but I know John has a little more work to do than other members of Council which also includes the publishing of "QTC". In fact thanks all you chaps who went back for a second helping.

Bob 4RW reports he worked 4KS at some place called Lamond and 4TM at Cunningham, also 4LN somewhere in Victoria during the Field Day Contest. He has just sent the cards for DX C.C. membership; congrats Bob OM. He is not sure if FIAKVA is OK or not for DX C.C. Has anybody any clues?

Well, cheerio and thanks for having me for the past 15 months. Like a bad penny, I'm sure to turn up again but in the meantime please send all the gossip you can to either Clare or Alf 4AP.

## CLARE'S CORNER

Congratulations to Ray 4FJ and his XYL Olive on the arrival of a son. No more staying up late to work DX now Ray or you'll wake the baby. 4CC, the "Chernside Clipper", has purchased a car, so I wouldn't be surprised if

Ham Radio suffers for a while and jaunts in the car take first preference. 4ZB, having worked that elusive JA0, has now only to wait for the cards before he can claim the "Worked All Japan Award."

Holidays seem to be the order of the day lately. 4KS and family are going on a motoring holiday down south. 4EL will be down from Townsville to spend his holidays with his family at Camp Hill. 3GR and a couple more Ballarat boys will be spending a holiday in Brisbane, including 2JZ who will stay over-night and then travel to the South Coast. 2AIR is back home after holidaying here for a couple of weeks. It's a wonder Hams can afford holidays after buying radio parts these days.

Shortly 4TN and 4AP will be taking over the positions of Station Manager and Sub-Editor respectively. Best of luck to both of you. 4TT is replacing the folded dipole with a ZL special. Hope it works out OK Tom. 4EL of Townsville seems to be in possession of a secret weapon. He contacted 4EE and Arthur's final tube blew up, he then contacted 4NC whose power transformer went up in smoke. 4WF then broke in and finished the contact with a spare for everything close handy.

## COUNTRY JOTTINGS

From 4CG we heard that he had words with 4RF at Cominya who reported that 4LT is leaving Cominya for Nanango and hopes to be on the air from the new QTH. 4RF himself also expects to be leaving Cominya but so far no new QTH has been suggested.

From 4GH at Maryborough we are told that 4BG and 4AI are doing well on 50 Mc. 4BG is using a three element beam and 4AI a folded dipole; the former having had 18 QSOs, and 4AI 11. 4SE has left the retail trade and has joined the local B.C. station. He is also active on 20 mc. 4KG has joined the R.A.A.F. again. This time permanently we hear, so it looks like a brand new motor boat will be for sale. 4GZ once more twings the stick at school after a very f.b. vacation, but Gordon reports that the fishing was very poor.

— . . . —

## SOUTH AUSTRALIA

The monthly general meeting of the VK5 Division for February was held at the clubrooms to a very representative gathering and

the guest speaker was Dave Hosking 5DH who gave a very interesting lecture. "The new South Australian Railways' diesel trains." These new diesel trains have aroused quite a deal of interest throughout Australia, and as Dave was connected with the installation right from the beginning, it was expected that he would be the right man to lecture on them, and I might say that our expectations were exceeded. The vote of thanks was passed by Bob 5RT and it was received with the same enthusiasm as was the opportunity to ask questions which preceded it. Nice work Dave.

At the opening of the meeting Ross 5LW welcomed the President "Doc" 5MD back to the chair after his illness, and although he left the meeting early, he found time to sweetly thank the Past President (Hal) for taking the chair in his absence, and with a sneer in his voice he alluded to the fact that the Vice-President ("Pansy") had weakened the legs of the chair at times. Among the welcome visitors were Messrs. Basson (2), Hoper, Smith, Fletcher, Orr and Laidlaw. To these gentlemen we say welcome and come again.

Bert 5DR, who puts up such a good performance in the Jubilee Relay Contest, has now left the lighthouse at Kangaroo Island and is domiciled at the lighthouse at Cape Borda. Congratulations Bert, you put the VK5 Division well out in the spotlight. Heard George 5GD on 20 the other Sunday asking a VK3 for a check on his phone, so I presume that he has been bitten by the bug again, welcome back OM. 5FB should be given the job of publicity officer for Clare judging by the way he was rapping it up on 40 the other Sunday, although he did not exactly rap it up when describing his QTH as regards noise level. By the sound of it the noise level must be terrific. Ross 5LW has been telling all and sundry on 20 mc about the annual fishing trip that he and Max 5GF had and he made it sound like a "fisherman's paradise." It appears that they caught over 300 crabs and heaps of whiting, and finished up using the said whiting for lobster bait!

Alan 5VO was heard telling Brian 5FQ of his proposed re-building programme and apparently he considers that his newly built shack deserves something better than his old rig, because he was giving dark hints of separate finals for all bands and a scooper-doooper rx with fixed-tune converters for each band, with a tuneable i.f. Robert Pearce, one of my spies,

# RADIO ACCESSORIES?

*Yes—we have them in PLENTY!*

Choose from our large range of:—

Transformers, Chokes and Sundry, for Audio and Power—Resistors in Abundance, enough to fill the Tower. Valves for use in every sphere—Condensers large and small, Meters, Testers, Instruments—Yes Sir, we sell them all.

Distributors for—EDDYSTONE Condensers, Dials, Knobs, etc. BELLING LEE Terminals, Plugs, etc. BULGIN Switches, Bezels.

*You give the Orders—We give the Service*

# GERARD & GOODMAN LTD.

192-196 RUNDLE STREET, ADELAIDE.

W 1541



Page 15

knows what it's like to be without news. Thanks, pal. Alice tells me Mac 6MG has been busy at late building up electronic timers for the last job. The radio is still rolled off the assembly line so far and all appear to be doing the required job. Mac, OM, how about designing one for the "hullo-gom" variable time talking unnecessarily to people in whom their only interest is a new piece of paste-board? Would it be a fair copy of the "hullo-gom" fortune too, like the same stuff has done for — (censored). A surprise visitor to Manjimup during the last week of the year was a radio technician on Boyup Brook but owing to a hitch in arrangements spent the night in what Alice describes as "this fair city." Mal saw him and he had no doubt many were the tales that were told. As for the next part of Alice's letter, I don't know whether to brush it off as a slight, or a fear of coming to see him or to break out into a wild, sneering laugh at the "I-could-have-told-you-so" type. Quote: "When I first came down here in November everyone assured me that a.c. would be on by Christmas or shortly after. They omitted to say which Christmas . . . Unquote: "Bill had a lot of news about the plaintive call for help and out of the blue came some very welcome additions to the call signs I include in my column from month to month. Bill says he's recently increased power to 50 watts to his pair of 80's; a 2 element beam adorns the chimney and he works hard to make Bill on matching systems to get the s.w.r. down. Bill says the T-match and 150-ohm line gave best results although he's not quite satisfied. He's also a victim to 6VM's since some time ago and Bob was so impressed with Eric's shack that he went home and tore his own to bits. He still says it's a shame!"

6FL has been active too and has a "hush-hush" beam (mentioned in 6WR's letter but so secret that Frank doesn't want to let it in the letter HE wrote me!) and it seems every country is now within his grasp: Bill says the boys worked until 11:30 p.m. on the 14 Mc. band. 6FL doesn't mind! 6LL is always good for a QSO on 14 Mc. Clarrie runs 40 watts (when the mains are up) and swears by his vertical antenna and doesn't mind to mention it after many months of silence. Peter runs only 10 watts but gets around just the same. 6NC is a good one and does a lot of work recently by coming on and calling. My spy tells me it's the first time he's heard Neil on 20 mx. Neil says he's been a bit out of the loop lately. Mail-reading has reached a new low since the VK6W-VLSAD combination has not been heard. 6AP has to wait till late at night to be heard. 6GK is a good one and is a ripper at a film star foundry. How's the "black box" performing. AH7 6IG is putting a back verandah on his house. He's been a bit of a time for hammering, they tell me. 6PW believed to be still about but not very active.

Bill Ashley was brought down by the resident M.O. at Forrest after I wrote to him and so far recovered as to write to ME—then it was my turn to faint. Quickly recovering I read what he had to say and it appears that the finding DX very scarce out there. Queued up recently for a contact with VKIVS but "n.d." Says he's been a good sport and that he can wish for, for reception, but the band conditions are just plain bad. Tells me Alan Doodson 6AR is married and has settled in Kaituma. 6AR is setting up in business on the 14 Mc. band. DX stations please note.

6GA also wants me to "jack down" a sub-ed. The Associated Division who had a crack at VK6 on the associate-member question which, having been solved some time ago, is now stale, as the "hullo-gom" variable time talking unnecessarily to people in whom their only interest is a new piece of paste-board has not been heard. 6AP has to wait till late at night to be heard. 6GK is a good one and is a ripper at a film star foundry. How's the "black box" performing. AH7 6IG is putting a back verandah on his house. He's been a bit of a time for hammering, they tell me. 6PW believed to be still about but not very active.

Bill Ashley was brought down by the resident M.O. at Forrest after I wrote to him and so far recovered as to write to ME—then it was my turn to faint. Quickly recovering I read what he had to say and it appears that the finding DX very scarce out there. Queued up recently for a contact with VKIVS but "n.d." Says he's been a good sport and that he can wish for, for reception, but the band conditions are just plain bad. Tells me Alan Doodson 6AR is married and has settled in Kaituma. 6AR is setting up in business on the 14 Mc. band. DX stations please note.

6GA also wants me to "jack down" a sub-ed. The Associated Division who had a crack at VK6 on the associate-member question which, having been solved some time ago, is now stale, as the "hullo-gom" variable time talking unnecessarily to people in whom their only interest is a new piece of paste-board has not been heard. 6AP has to wait till late at night to be heard. 6GK is a good one and is a ripper at a film star foundry. How's the "black box" performing. AH7 6IG is putting a back verandah on his house. He's been a bit of a time for hammering, they tell me. 6PW believed to be still about but not very active.

Erratum: Referring to an earlier paragraph, I have given a copy of the letter to the divisions again and have decided that what somebody should buy him is a new typewriter for his ribbon!

## TASMANIA

The Annual General Meeting of the Division was held at the Photographic Society's Room, 174 Liverpool Street, on Saturday, 1st March. The President, Bob O'May, opened the meeting at 5.30 p.m. about 40 members and a few curious party of the State were present. The North was ably represented by 7CA, but we were disappointed by the absence of visitors from the North West. The evening was capably upheld by Lance Frith, 32A.

J. Brown and G. Cannock were appointed as scrutineers to check the Ballot. After which the following officers were elected for 1952: Patron, Mr. L. Crooks; Vice-Presidents, L. Jensen, J. Brown, D. O'May, K. Vary, J. Pearson; Traffic Manager, TQM selected; Broadcast Officer, TLE re-elected; QSL Officers, 7AL and 7J3 re-elected; V.H.F. Officer, 7AJ; Auditors, 7AB and 7GB; Slaves, Transmissions, 7KA; and Publicity, 7JD.

On the return of the Scrutineers, the Ballot results disclosed that the following members would constitute the new Council: L. Edwards, R. D. O'May, F. J. Evans, A. Johnson, T. Allen, S. Excell and R. Pullen.

A certain amount of QRM and cross-talk was experienced when the meeting was asked to decide upon a new night for future meetings, and it was finally decided that Thursday night would suit the majority of members.

The meeting closed at approx. 8.30 p.m., and members then adjourned to Ellerslie House for the Annual Dinner. Official history was given by the Divisional Inspector of the Wireless Branch, P.M.G.'s Dept., and Mr. T. Weeks, of O.T.C.

Quite a few members lingered late in an endeavour to leave no doubt in the minds of the Dinner Committee, that their efforts were greatly appreciated. Our thanks go to the committee, consisting of 7AF, 7FJ and 7AL, for a most enjoyable evening.

A highly successful Field Day and Tx Hunt was held on the following Sunday. The hunt on 14.5 Mc. was operated by TOM and TBJ. Quite a bit of merriment ensued when it was realised that Bob's climb heavens was for his holo popper and not spiritual. The tx was located just one hour after leaving the starting point, Mr. Rumney, by TLE, Barney Watson and TBJ. The hunt was a success and Barney's efforts are to be commended when one considers that he was looking for Uranium at the same time.

I must apologise for the somewhat sketchy nature of the foregoing notes, but I did not realise that I would be responsible for them, until my letter to the secretary of the Division was vacant possession. So many years of learning "never to volunteer," and one still gets used to it. However, I shall endeavour to improve come April—7JD.

## NORTHERN TASMANIAN ZONE

With so much practically useless due to static and with an improvement in conditions on 7 Mc., there has been some increased activity on this band in recent months. 7GK has been testing on 40. Peter is lucky in that he is located in one of the residential areas, yet the nearest DX station is 100 miles away. 7JF has also been active on 14 Mc. as has TLZ, the man with the mighty beam.

TDB has now moved into his new house but considers it a nuisance as he has to be out the same time, whilst another busy house-building is TRB who spent his holidays with hammer and nails. From a commercial point of view, the TDB pressor that sounds B. Gordon finds it more effective than his previous splatter suppressor. TLX and TRK recently had a contact with 7BR who was in town in his official capacity. TLX is wearing a very worried look, not because of this, but because he will soon be between two worlds. The new 100-watt Ken-Rex 7GK is directly in line with TRK and TXW's proposed new address. Ray is located about 150 yards north of TLX and Chas. is about the same distance south. Look out QRM.

TTE doesn't quite know what to make of things when someone refers to him as a "Ham." He is a little bit puzzled by the fact that he is his Amateur Radio activities or his Amateur Hour broadcast. (One way of working all stations is a bill but you won't get any QSL cards for it.)

Away on a quiet holiday in Sydney has been THY. Secretary TMB and his wife, who are away. TLE is now settled in Launceston, will along to our last meeting and warmly welcomed, hope to hear him on 40 before long.

The annual election of officers for the following office-bearers were elected: President, 7AM; Secretary, TGM; V.H.F. Officer, TLZ, LEX; Officer, 7PF; Zone Correspondent, 7CW.

## NORTH WESTERN ZONE

Sorry I missed last month, but owing to a brief spell in hospital, yours truly has been out of the picture for a while but it has now returned again. It has come to my hearing that we have gained a new member, namely, Mr. S. Medford—fine business on passing the exam. It is also my painful duty to mention that one of the pillars of this zone has been transferred some short distance, namely 7AB, the North West. I am sure that the new pillar, Doug, heard TWA calling CQ on 10 mx the other day, you are certainly putting out a fine signal on 10. Believe 7KLB has been doing some work on the same band in his spare time which I believe is very scarce nowadays.

## HAMADS

9d. per line, minimum 2/-.

Advertisements under this heading will only be accepted from Institute Members who desire to dispose of equipment which is their own personal property. Copy must be received by 8th of the month, and remittance must accompany advertisement. Calculation of cost is based on 10 words per line. Dealers' advertisement not accepted in this column.

**AR7 Receiver complete, 10 metre "A" coil, R.A.A.F. handbook on receiver, and Panadator. What offers?** C. Anderson, 26 Elora Rd., South Oklaigh, Vic.

**FOR SALE**—AR7 Receiver, complete with all coils including 10 metre coil, power supply and speaker. £45. R. Bouchier, 1st Primrose St., Essendon, Vic. (RU 1206).

**FOR SALE**—Command v.f.o. 7-9 Mc. with American calibrated vernier dial (this must be seen to be appreciated), with voltage regulated power supply. A snap at £12/10/- Ring XU 1554, or 96 Roslyn St., Brighton, Vic.

**FOR SALE**—100w. band switched Tx, 80 to 10 mx, rack mounted, every circuit used, mod. 807's p.p.t. power supply, beam powered, 100 watt glass crackle finish, ready to go. Must sell, £100. For inspection ring XU 1554, or apply 96 Roslyn St., Brighton, Vic.

**FOR SALE**—455 Kc. Xals in U.S. F241A holders (marked in 54th harmonic), £3/10/- Brand new 455 Kc. Xals made by Precision Radio, U.S.A., £4/10/- A. C. Knight, 22 Gotta St., Heidelberg, Vic.

**FOR SALE**—5" C.R.O. complete, in excellent condition, price £25. F. Smith, 32 William St., Forbes, N.S.W.

**SELL**—AR8, 140 Kc. to 20 Mc., a.c. power supply, £21. 9-valve Comm. Rx power supply and speaker, band spread Amateur bands, £20. Calstan Modulated Oscillator, a.c. £7/10/-. Ferro-tune unit and chassis, 5v. broadcast, £2. 150 Ma. 30 henry choke, £1. 0-1 Ma. Meter (multimeter scale), £1. Set (16) AR14 Coils, 10/- 455 Kc. 1.F. Transformers, 2/6 each. Must sell. Port. K. Bridger, 132 Nott St., Port Melbourne, Vic.

**SELL**—Complete issues "CQ" 1951. Best offer April 15 is notified. E. Trebilcock, 184 Osborne St., Williamstown, Vic.

**SELL**—Hi-Fi Speaker Labrynth, 10 or 8 inch sound, Mahogany French Polish, Cow Hair lined, £15, Win. 2263.

**WANTED**—14 Mc. Coil for Kingsley K59. Write price, A. S. Mather, 14 William St., Singleton, N.S.W.

# ★ 3 NEW MEMBERS

join the **ZEPHYR** team!



There is now a Zephyr mike for every need. We announce three of the latest productions now available for immediate delivery through all Radio Supply Houses and Pyrox Distributors. Full technical details and prices are available on application.

## ZEPHYR '40' SERIES

**ZEPHYR "40" SERIES:** A medium priced, high grade velocity microphone with outstanding characteristics which place it in the upper class field of faithful, wide range recording mikes. The performance is very close to the renowned Zephyr "50" series, so well known to broadcast and recording engineers that it needs no amplification here. The "40" series incorporates the latest design techniques and uses exceptionally powerful magnets giving high output and wide range response. Available in 50, 200, 500 ohms and grid impedance outputs. Output approximately —60 db's.

## ZEPHYR '80' SERIES

**ZEPHYR "80" SERIES** offers a very high grade dynamic mike suitable for P.A., Ham, or recording purposes. The design is new, and the finish has an attraction that meets general approval. This dynamic mike was fundamentally designed to be incorporated in wire and tape recording equipments to fulfill a requirement that has not, to date, been completely met. The insert is of overseas manufacture and is very rugged. As with the "40" series, the outputs are 50, 200, 500 ohms and grid impedances. Output —50 db's.

## 5XA CONFERENCE MIKE

**"5XA" CONFERENCE MIKE** is an omni-directional crystal microphone, specifically designed for use in conjunction with wire and tape recorders, in addition to general communications purposes. It is capable of recording with crystal clarity, comments, music, etc., from all directions.

Manufactured by Cunningham Industries Pty. Ltd., Melbourne

C.632



MARKETED BY :

**R.H.CUNNINGHAM PTY. LTD.**

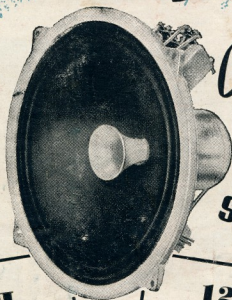
118 WATLETREE ROAD, ARMADALE, S.E.3. CABLE "CUNNIG" MELBOURNE—TELEPHONE UY6274



# Realism in Sound

## Stentorian Concentric

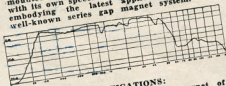
### DUPLEX



### SPEAKERS

## 10 INCH

The most advanced and efficient "twin" quality speaker available for domestic use. The concentric Duplex Speaker constitutes two separate loudspeakers, concentrically mounted . . . each operating independently with its own speech coil gap and diaphragm, embodying the latest application of the well-known series gap magnet system.

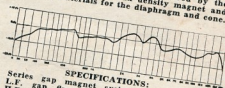


#### SPECIFICATIONS:

50 to 14,000 c.p.s. series gap magnet of Alcomax 3.  
Flux in L.F. gap, 12,000 gauss on 1" pole.  
L.F. diaphragm of multi-fibre material, graduated cone formation 10" diameter, 3 ohms at 1,000 c.p.s.  
L.F. speech coil impedance, 3 ohms at 1,000 c.p.s.  
H.F. gap 13,000 gauss on 1" pole.  
H.F. diaphragm, convex formation 1 1/2" diameter, mechanically protected and loaded by non-resonant central pressure horn.  
H.F. speech coil impedance, 30 ohms at 1,000 c.p.s.  
Power handling capacity (both component speakers), 6 watts.  
Chassis material, pressure die-cast from Mazak 3, non-magnetic and non-resonant alloy.

## 12 INCH

This quality loudspeaker is of similar construction to our highly successful 10" Concentric Duplex Loudspeaker and combines exceptional quality with large power handling capacity. This is achieved by the use of a very high flux density magnet and special materials for the diaphragm and cone.



#### SPECIFICATIONS:

Series gap magnet system of Alcomax 3.  
L.F. gap flux density of 14,000 oersteds.  
H.F. gap flux density of 12,000 oersteds.  
Total magnetic flux 220,000 lines.  
L.F. speech coil impedance, 15 ohms at 1,000 c.p.s.  
H.F. speech coil impedance, 15 ohms at 1,000 c.p.s.  
L.F. diaphragm of multi-fibre material, graduated cone formation, 12" diameter.  
H.F. metal diaphragm, convex formation 1 1/2" diameter, mechanically protected and loaded by non-resonant central pressure horn.  
Cross-over network, with input impedance of 15 ohms fitted to loudspeaker chassis.  
Chassis material, pressure die-cast from Mazak 3 non-magnetic and non-resonant alloy.  
Frequency coverage: 30-17,000 c.p.s. with base resonance at 45 c.p.s.  
Power handling capacity—15 watts.

# J.H. MAGRATH & Co. PTY. LTD.

## Sole Australian Agents

208 LT. LONSDALE ST., MELBOURNE. Phones CENT. 3688-4414